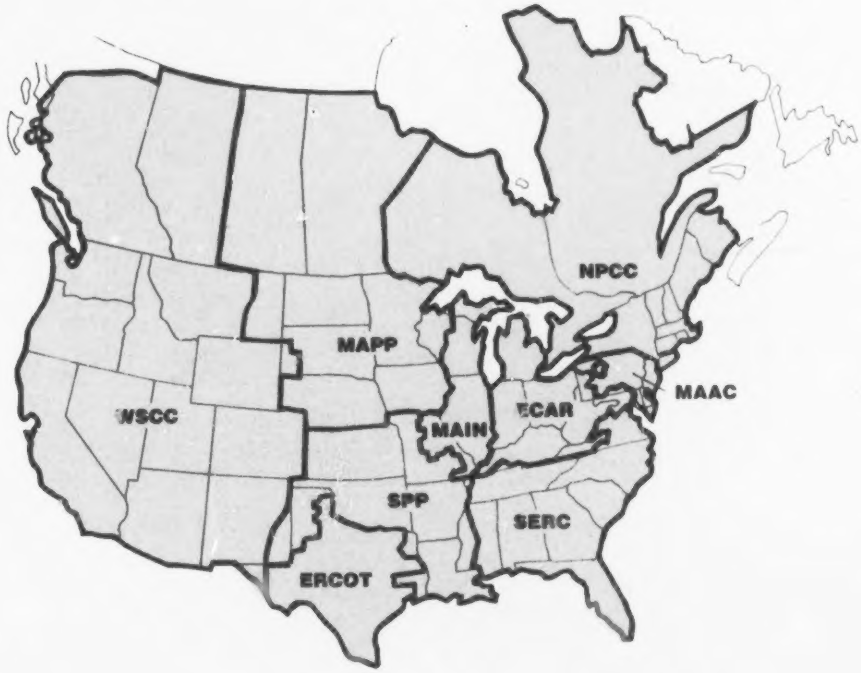
North American Electric Reliability Council



ECAR
East Central Area Reliability Coordination Agreement

ERCOT
Electric Reliability Council of Texas

MAAC
Mid-Atlantic Area Council

MAIN
Mid-America Interpool Network

MAPP
Mid-continent Area Power Pool

NPCC
Northeast Power Coordinating Council

SERC
Southeastern Electric Reliability Council

SPP
Southwest Power Pool

WSCC
Western Systems Coordinating Council

AFFILIATE

ASCC
Alaska Systems Coordinating Council

The North American Electric Reliability Council (NERC) was formed by the electric utility industry in 1968 to promote the RELIABILITY and ADEQUACY of bulk power supply in the electric utility systems of North America. NERC consists of nine Regional Reliability Councils and one affiliate encompassing virtually all of the power systems in the United States and Canada.

RELIABILITY and ADEQUACY are separate but interdependent aspects of the bulk power supply system of the electric utility industry in North America. RELIABILITY involves the security of the interconnected transmission network and the avoidance of uncontrolled cascading tripouts that may result in widespread power interruptions. ADEQUACY refers to having sufficient generating capability to meet the electric demands of all customers.

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1984 ANNUAL DATA SUMMARY REPORT FOR
THE REGIONAL RELIABILITY COUNCILS OF NERC

ELECTRIC POWER SUPPLY & DEMAND

1984-1993

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL

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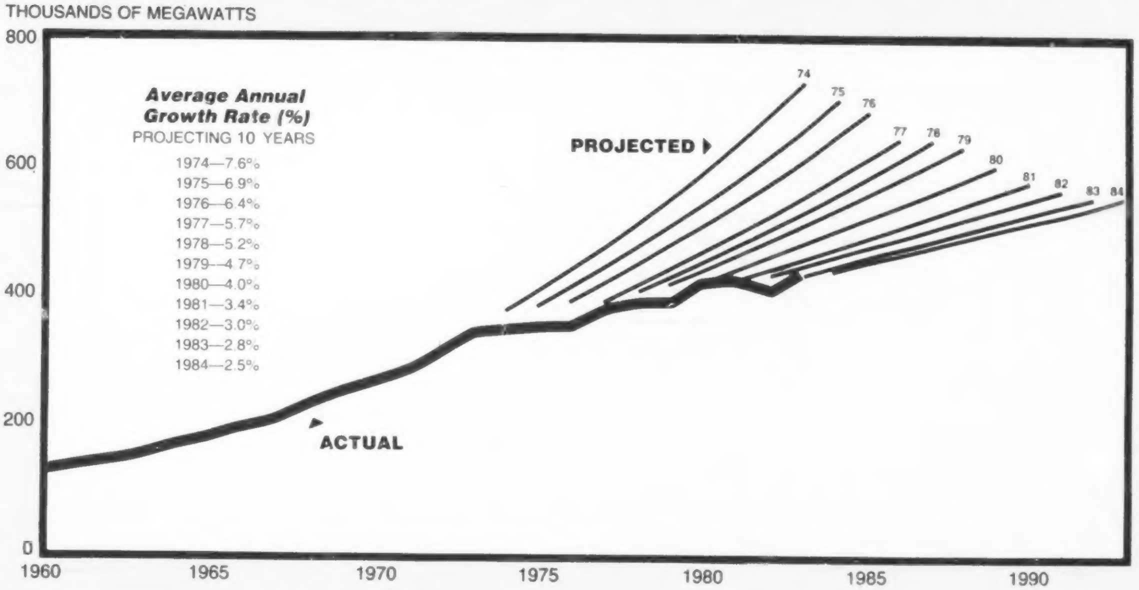
Highlights

Preview of Selected Data 1984-1993

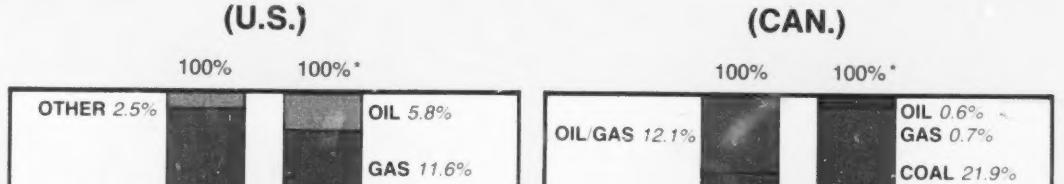
		1984	1993	1984-1993
SUMMER PEAK DEMAND (MW)	U.S.	446,681	559,370	—
	CAN.	57,349	76,052	—
SUMMER/WINTER PEAK DEMAND RATIOS	U.S.	109.1%	109.4%	—
	CAN.	73.0%	71.8%	—
SUMMER PEAK DEMAND AVERAGE ANNUAL GROWTH RATE	U.S.	—	—	2.5%
	CAN.	—	—	3.2%
NET ELECTRICAL ENERGY REQUIREMENTS (10^3 MWh)	U.S.	2,390,143	3,039,850	—
	CAN.	314,456	413,792	—
LOAD FACTORS	U.S.	61.1%	62.0%	—
	CAN.	63.6%	63.7%	—
NET ENERGY AVERAGE ANNUAL GROWTH RATE	U.S.	—	—	2.7%
	CAN.	—	—	3.1%
SCHEDULED NEW COAL-FIRED GENERATING UNITS	U.S.	—	—	107 (57.8 GW)
	CAN.	—	—	10 (3.4 GW)
SCHEDULED NEW NUCLEAR GENERATING UNITS	U.S.	—	—	50 (55.1 GW)
	CAN.	—	—	11 (8.2 GW)
SCHEDULED OIL-TO-COAL UNIT CONVERSIONS	U.S.	—	—	30 (6.0 GW)
	CAN.	—	—	0
SCHEDULED GENERATING UNIT RETIREMENTS	U.S.	—	—	351 (15.1 GW)
	CAN.	—	—	15 (0.2 GW)

NERC Summer Peak Demand Projections

Comparison of Annual Ten-Year Forecasts, U.S.



NERC 1983 Actual Capability vs. Generation



*The difference between the sum of the parts and 100% represents the share by sources not shown.

Introduction

About NERC:

The North American Electric Reliability Council (NERC) was formed by the electric utility industry in 1968 to promote the reliability and adequacy of bulk electric power in North America.

NERC's nine Regional Reliability Councils and one affiliate comprise virtually all of the electric utility systems in the United States and Canada. The Regional identifications and geographic boundaries are shown on the map inside the front cover.

The governing body of NERC is its Board of Trustees, consisting of two representatives from each Regional Council, plus such additional representatives as prescribed in the By-Laws. There must always be at least one representative on the Board from a Canadian utility system and at least two utility representatives from each segment of the electric utility industry: Investor-owned, Federal, Rural Electric Cooperative, and State/Municipal.

Meetings of the Board are attended by observers from the United States Department of Energy and from the Canadian National Energy Board. Representatives of the Edison Electric Institute, American Public Power Association, and the National Rural Electric Cooperative Association also attend as observers.

NERC was created with an active committee structure, spanning the existing Regional utility organizations, providing an industry forum and mechanism for coordination. NERC committee members are chief executive officers and high-level technical personnel from all segments of the industry, dedicated to this objective. This committee structure, requiring the active cooperation of hundreds in the industry, is coordinated and supported by the NERC staff located in Princeton, New Jersey.

About this Report:

One of the major activities of NERC is the annual compilation and publication of utility forecasts relating to electric power supply and demand. This *Electric Power Supply and Demand* report has been designed to provide these data in a concise and useful format to satisfy the needs of a wide variety of industry audiences.

The projections summarized in this report are not conceptions of NERC, but rather are aggregations of the forecasts developed early in 1984 by the individual utility members of each Regional Reliability Council.

The data on projected peak demand and planned resources for 1984-1993, and on planned additions and retirements of generating units, have been extracted from the April 1, 1984 Coordinated Bulk Power Supply Program (EP-411) reports submitted to the United States Department of Energy (DOE) by each of the nine Regional Reliability Councils.

The data on 1983-1993 generating capability by fuel, electric energy generation by fuel, fossil fuel requirements, planned conversions of units to coal-firing, planned additions of transmission lines, and 1983 actual peak demand are reported directly to NERC by the Regional Reliability Councils.

Derivations of data compiled in the other tables of this report are described where necessary in the text accompanying each table.

It is to be understood that this report is intended to provide projections, not predictions, at a given point in time. Uncertainties exist. Changing circumstances may vitiate certain assumptions underlying these projections. The most consequential of these uncertainties are:

- Unanticipated factors affecting future growth of peak demand and energy requirements.
- The uncertainties associated with the schedules of generating units presently under construction or planned for the future.

- Unanticipated regulatory restrictions which may affect the operation of existing generating units.
- Future constraints on fuel availability or use beyond those recognized at the time the projections were prepared.

The unique value of the NERC summary of projections is that it is derived from and reflects the collective perceptions and plans of the individual utilities in the industry.

The data found in the tables of this report have been summarized by NERC Regions. Data for the MAIN, NPCC, SERC, SPP, and WSCC Regions are also sorted by their Subregions and presented in Subregional tables following each corresponding Regional table. The Regional and Subregional abbreviations which have been used throughout this report are identified in the listing on this page.

Throughout this data report, reference to the U.S. refers to the *contiguous* United States; reference to Canada refers to the seven provinces bordering the contiguous U.S. Where seasons are designated, SUMMER is defined as that period of the year between June 1 and September 30; WINTER is defined as that period between December 1 and March 31. Appropriate footnotes have been included.

Questions or comments about this report can be directed to:

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REGION	SUBREGION
ECAR East Central Area Reliability Coordination Agreement	NONE
ERCOT Electric Reliability Council of Texas	NONE
MAAC Mid-Atlantic Area Council	NONE
MAIN Mid-America Interpool Network	**CMNWLTH. ED.**—Commonwealth Edison Company **E. MISSOURI**—East Missouri Group **SO. CENT. ILL.**—South Central Illinois Group **WIUM**—Wisconsin-Upper Michigan Systems Group
MAPP Mid-continent Area Power Pool	NONE
NPCC Northeast Power Coordinating Council	**NEW YORK**—New York State **NEW ENGLAND**—New England **NEW BRUNSWICK**—New Brunswick Electric Power Commission **ONTARIO**—Ontario Hydro **QUÉBEC**—Hydro Québec
SERC Southeastern Electric Reliability Council	**FLORIDA**—Florida Subregion **SOUTHERN**—Southern Subregion **TVA**—Tennessee Valley Authority Subregion **VACAR**—Virginia-Carolinas Subregion
SPP Southwest Power Pool	**GROUP A**—Western Mississippi, Southeastern Texas, Eastern Arkansas, Southeastern Missouri, and Louisiana. **GROUP B**—Western Arkansas, the Texas Panhandle, Northeast Texas, and Oklahoma. **GROUP C**—Western Missouri and Kansas
WSCC Western Systems Coordinating Council	**NWPP**—Northwest Power Pool Area **RMPA**—Rocky Mountain Power Area **AZ-NM**—Arizona-New Mexico Power Area **CA-SNV**—California-Southern Nevada Power Area

Net Annual Energy

The *Net Annual Energy* data represent the net annual electrical energy needed to serve the projected load.

Along with showing values of annual energy requirements, ten-year average annual growth rates for the Regions and Subregions have been calculated and are provided in the last column of these tables. The average annual growth rate here is calculated by taking the ninth root of the difference between the energy values for the first and tenth projected years.

U.S. utilities are forecasting net energy requirements for 1984-1993 which, in the aggregate, result in an average annual growth rate of 2.7%. Last year's ten-year forecast rate was 3.2%.

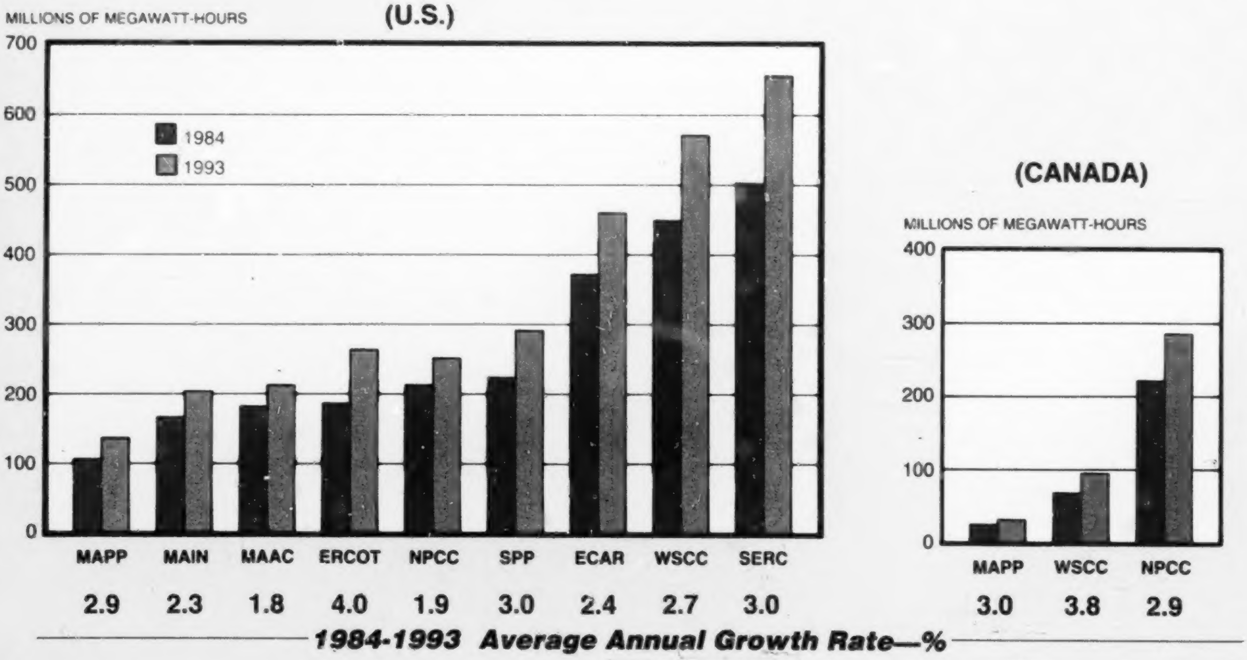
This decline in the growth rate results in a two-year slippage in energy requirements for the U.S. by the 10th year. That is, this year's projection for 1993 (3,039,850 GWh) equals last year's projection for 1991 (3,039,222 GWh).

Canadian utilities are forecasting a growth rate for 1984-1993 of 3.1%. Last year's ten-year forecast rate was 3.7% for Canada. This decline in the growth rate results in a more than 1½-year slippage in Canadian energy requirements by the 10th year.

Even though the NERC Regions are expecting a lower growth rate than in past years, based on this year's projections, the industry will require 30% more electric energy ten years from now.

For a breakdown by fuel types of the electric generation needed to provide this energy through 1993, refer to Table 10.

NERC Net Annual Energy



1984-1993 Average Annual Growth Rate—%

NET ENERGY FOR LOAD (Thousand MWh)

TABLE 1

REGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	AVG. ANNUAL GROWTH (%) 1984-1993
ECAR	364,501	370,800	383,900	394,600	404,700	416,500	426,600	434,700	443,300	451,800	459,900	2.4
ERCOT	173,372	185,020	191,831	197,374	206,175	214,224	223,378	232,977	242,531	252,181	262,535	4.0
MAAC	179,990	180,491	184,345	187,366	190,168	194,020	197,320	200,735	204,383	207,931	211,483	1.8
MAIN	165,974	164,901	170,168	174,854	179,904	183,623	187,533	191,390	195,152	198,954	202,789	2.3
MAPP—U.S.	102,526	104,764	108,308	112,169	115,599	119,172	122,390	125,746	128,574	131,940	135,138	2.9
NPCC—U.S.	210,815	211,743	214,724	217,532	221,409	225,966	230,912	235,186	239,781	245,372	250,626	1.9
SERC	490,899	501,721	525,733	542,748	561,472	576,164	591,681	607,757	623,416	640,066	655,883	3.0
SPP	217,688	222,503	230,312	236,640	243,839	251,102	258,718	266,278	274,537	283,073	290,555	3.0
WSCC—U.S.	435,868	448,200	462,075	477,521	490,456	504,217	517,532	530,536	544,295	558,181	570,941	2.7
NERC—U.S.	2,341,633	2,390,143	2,471,396	2,540,804	2,613,722	2,684,988	2,756,064	2,825,305	2,895,969	2,969,498	3,039,850	2.7
MAPP—CANADA	24,108	24,359	24,861	25,698	26,740	27,602	28,383	29,289	30,071	30,931	31,770	3.0
NPCC—CANADA	214,939	221,852	230,409	239,134	246,443	253,722	260,310	267,328	273,648	280,480	286,685	2.9
WSCC—CANADA	63,281	68,245	71,625	74,954	77,244	80,759	83,843	86,458	89,280	92,312	95,337	3.8
NERC—CANADA	302,328	314,456	326,835	339,786	350,427	362,083	372,536	383,075	392,999	403,723	413,792	3.1

SUBREGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	AVG. ANNUAL GROWTH (%) 1984-1993
CMNWLTH. ED.	67,000	65,500	68,100	70,800	73,650	75,100	76,600	78,150	79,700	81,300	82,950	2.7
EAST MISSOURI	28,428	28,010	28,520	29,018	29,669	30,311	30,966	31,615	32,280	32,958	33,642	2.1
SO. CENT. ILL.	31,960	31,445	32,356	32,986	33,695	34,421	35,192	35,919	36,623	37,340	38,064	2.1
WIUM	38,586	39,946	41,192	42,050	42,890	43,791	44,775	45,706	46,549	47,356	48,133	2.1
MAIN	165,974	164,901	170,168	174,854	179,904	183,623	187,533	191,390	195,152	198,954	202,789	2.3
NEW YORK	122,088	120,780	122,582	124,162	126,100	127,920	129,863	131,100	132,682	134,947	137,263	1.4
NEW ENGLAND	88,727	90,963	92,142	93,370	95,309	98,046	101,049	104,086	107,099	110,425	113,363	2.5
NPCC—U.S.	210,815	211,743	214,724	217,532	221,409	225,966	230,912	235,186	239,781	245,372	250,626	1.9
NEW BRUNSWICK	8,821	9,238	9,656	10,041	10,383	10,680	10,961	11,222	11,484	11,745	12,003	3.0
ONTARIO	106,071	108,993	112,567	116,305	119,888	123,492	126,221	129,299	131,585	134,287	136,565	2.5
QUÉBEC	100,047	103,621	108,186	112,788	116,172	119,550	123,128	126,807	130,579	134,448	138,117	3.2
NPCC—CANADA	214,939	221,852	230,409	239,134	246,443	253,722	260,310	267,328	273,648	280,480	286,685	2.9
FLORIDA	99,820	102,916	108,657	112,230	115,945	119,721	123,458	127,319	131,104	135,958	139,743	3.5
SOUTHERN	113,587	115,461	118,776	122,139	125,328	128,612	131,919	135,419	139,087	142,793	146,360	2.7
TVA	114,015	116,756	127,151	133,331	140,655	143,699	146,820	150,018	152,539	154,757	157,501	3.4
VACAR	163,477	166,588	171,149	175,048	179,544	184,132	189,484	195,001	200,686	206,558	212,279	2.7
SERC	490,899	501,721	525,733	542,748	561,472	576,164	591,681	607,757	623,416	640,066	655,883	3.0
GROUP A	102,562	102,849	105,622	107,433	110,294	113,430	116,289	119,030	121,994	125,074	127,613	2.4
GROUP B	68,939	72,896	77,035	79,707	82,507	85,334	88,253	91,429	94,971	98,588	101,641	3.8
GROUP C	46,187	46,758	47,655	49,500	51,038	52,338	54,176	55,819	57,572	59,411	61,301	3.1
SPP	217,688	222,503	230,312	236,640	243,839	251,102	258,718	266,278	274,537	283,073	290,555	3.0
NWPP—U.S.	172,006	179,472	184,438	189,603	194,503	200,472	205,694	210,382	215,583	220,830	224,930	2.5
RMPA	31,805	34,051	35,048	36,562	38,330	39,956	41,429	42,870	44,143	45,641	47,166	3.7
AZ-NM	44,082	45,544	48,318	53,786	56,343	58,567	60,768	62,841	64,951	67,230	69,429	4.8
CA-SNV	187,975	189,133	194,271	197,570	201,280	205,222	209,641	214,443	219,618	224,480	229,416	2.2
WSCC—U.S.	435,868	448,200	462,075	477,521	490,456	504,217	517,532	530,536	544,295	558,181	570,941	2.7

Peak Demand

Peak Demand data represent actual and forecast peak hour demands, including demands which are interruptible by contract.

Peak demands as tabulated for the various NERC Regions may occur in different months within a given season. NERC totals, therefore, represent aggregations of non-coincident Regional peak demands.

Along with showing values of annual peak demand, ten-year average annual growth rates for the Regions and Subregions have been calculated and are provided in the last column of these tables. The average annual growth rate here is calculated by taking the ninth root of the difference between the peak demand values for the first and tenth projected years.

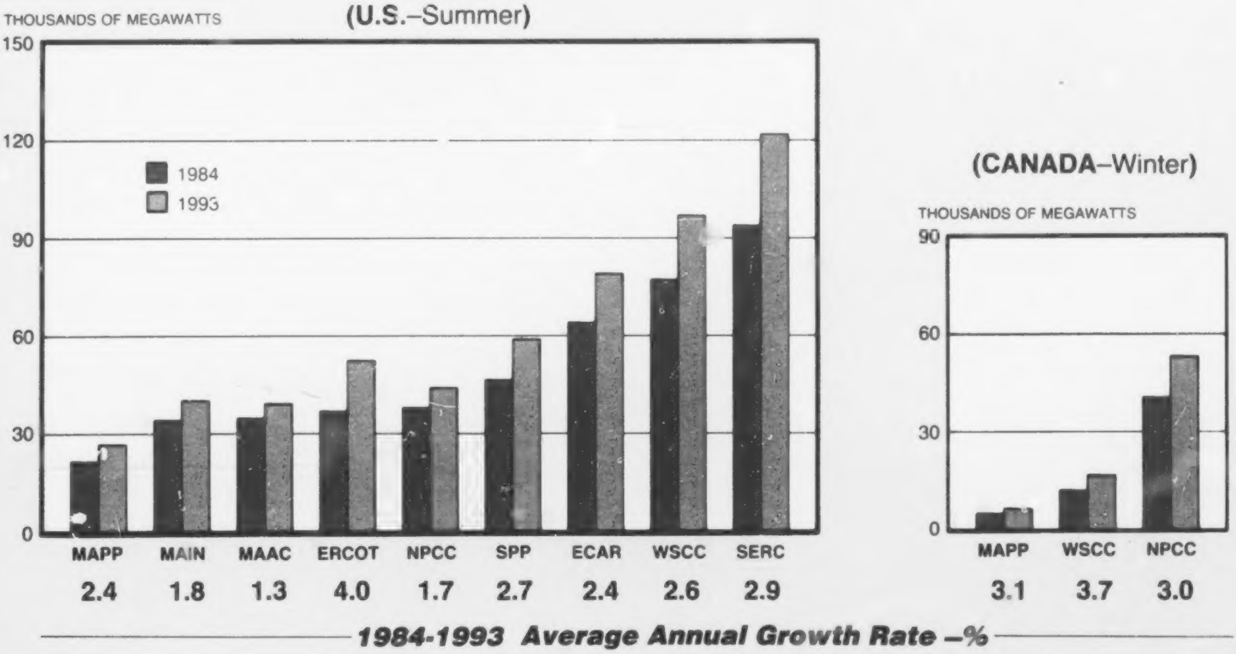
U.S. utilities are forecasting summer peak demands for 1984-1993 which, in the aggregate, result in an average annual growth rate of 2.5%. Last year's ten-year forecast rate was 2.8%.

This decline in the growth rate results in a one-year slippage in projected peak demand for the U.S. by the 10th year. That is, this year's projection for 1993 (559,370 MW) approximates last year's projection for 1992 (558,241 MW).

Canadian utilities are forecasting winter peak demands for 1984-1993 which result in an average annual growth rate of 3.2%. Last year's ten-year forecast rate was 3.6%.

This decline in the growth rate for Canada results in a one-year slippage in projected peak demand by the 10th year. This year's projection for the 1993/94 winter (76,052 MW) equals last year's projection for 1992/93 (76,035 MW).

NERC Projected Peak Demands



PEAK DEMAND—SUMMER (MW)

TABLE 2

REGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	AVG ANNUAL GROWTH (%) 1984-1993
ECAR	65,959	64,008	66,275	68,236	69,774	71,438	73,047	74,579	76,150	77,664	79,110	2.4
ERCOT	34,972	36,841	38,303	39,744	41,594	43,061	44,906	46,709	48,605	50,375	52,407	4.0
MAAC	34,783	34,720	35,180	35,760	36,140	36,690	37,140	37,580	38,060	38,610	39,150	1.3
MAIN	34,704	34,119	35,055	35,642	36,274	36,874	37,511	38,160	38,827	39,498	40,165	1.8
MAPP—U.S.	20,785	21,517	22,275	22,809	23,351	23,907	24,510	25,149	25,582	26,175	26,728	2.4
NPCC—U.S.	37,627	37,881	38,446	38,931	39,532	40,306	41,043	41,673	42,344	43,200	44,006	1.7
SERC	97,235	93,920	98,030	100,979	104,019	106,747	109,572	112,505	115,605	118,404	121,873	2.9
SPP	45,881	46,441	47,548	48,702	50,068	51,486	52,940	54,350	55,961	57,486	58,970	2.7
WSCC—U.S.	75,580	77,234	79,571	81,673	84,173	86,429	88,549	90,586	92,814	94,958	96,961	2.6
NERC—U.S.	447,526	446,681	460,683	472,476	484,925	496,938	509,218	521,291	533,948	546,370	559,370	2.5
MAPP—CANADA	3,548	3,574	3,629	3,751	3,908	4,029	4,144	4,278	4,393	4,523	4,644	3.0
NPCC—CANADA	28,650	28,889	30,005	31,078	31,946	32,717	33,615	34,447	35,191	35,969	36,916	2.8
WSCC—CANADA	8,816	9,392	9,823	10,286	10,582	11,072	11,477	11,847	12,237	12,641	13,040	3.7
NERC—CANADA	41,014	41,855	43,457	45,115	46,436	47,816	49,236	50,572	51,821	53,133	54,600	3.0

SUBREGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	AVG ANNUAL GROWTH (%) 1984-1993
CMNWLTH. ED.	14,517	14,250	14,800	15,100	15,400	15,700	16,000	16,300	16,650	17,000	17,350	2.2
EAST MISSOURI	6,387	6,280	6,351	6,403	6,485	6,557	6,637	6,719	6,800	6,892	6,983	1.2
SO. CENT. ILL.	6,774	6,565	6,711	6,827	6,940	7,021	7,141	7,285	7,403	7,524	7,649	1.7
WIUM	7,026	7,024	7,193	7,312	7,449	7,596	7,733	7,856	7,974	8,082	8,183	1.7
MAIN	34,704	34,119	35,055	35,642	36,274	36,874	37,511	38,160	38,827	39,498	40,165	1.8
NEW YORK	21,842	21,810	22,220	22,520	22,830	23,160	23,420	23,600	23,810	24,150	24,540	1.3
NEW ENGLAND	15,785	16,071	16,226	16,411	16,702	17,146	17,623	18,073	18,534	19,050	19,466	2.2
NPCC—U.S.	37,627	37,881	38,446	38,931	39,532	40,306	41,043	41,673	42,344	43,200	44,006	1.7
NEW BRUNSWICK	1,191	1,251	1,282	1,311	1,339	1,372	1,405	1,438	1,471	1,503	1,535	2.3
ONTARIO	15,132	15,035	15,600	16,110	16,603	17,062	17,483	17,989	18,226	18,549	18,915	2.6
QUÉBEC	12,327	12,603	13,123	13,657	14,004	14,283	14,727	15,100	15,494	15,917	16,466	3.0
NPCC—CANADA	28,650	28,889	30,005	31,078	31,946	32,717	33,615	34,447	35,191	35,969	36,916	2.8
FLORIDA	20,414	20,362	20,996	21,612	22,107	22,701	23,197	23,778	24,509	25,020	25,950	2.7
SOUTHERN	23,742	22,519	23,176	23,940	24,575	25,280	25,916	26,581	27,282	27,978	28,698	2.7
TVA	20,478	19,495	21,549	22,412	23,714	24,279	24,985	25,620	26,199	26,657	27,332	3.8
VACAR	32,601	31,544	32,309	33,015	33,623	34,487	35,474	36,526	37,615	38,749	39,893	2.6
SERC	97,235	93,920	98,030	100,979	104,019	106,747	109,572	112,505	115,605	118,404	121,873	2.9
GROUP A	20,144	19,717	20,014	20,368	20,935	21,531	22,122	22,668	23,272	23,872	24,397	2.4
GROUP B	14,934	15,757	16,372	16,876	17,392	17,926	18,496	19,074	19,784	20,400	21,022	3.3
GROUP C	10,803	10,967	11,162	11,458	11,741	12,029	12,322	12,608	12,905	13,214	13,551	2.4
SPP	45,881	46,441	47,548	48,702	50,068	51,486	52,940	54,350	55,961	57,486	58,970	2.7
NWPP—U.S.	24,536	23,985	24,432	24,932	25,532	26,255	26,925	27,608	28,166	28,718	29,267	2.2
RMPA	5,350	5,926	6,230	6,491	6,771	7,020	7,255	7,489	7,705	7,953	8,205	3.7
AZ-NM	8,899	9,460	10,236	10,822	11,341	11,771	12,227	12,664	13,145	13,572	13,964	4.4
CA-SNV	37,488	38,381	38,883	39,506	40,529	41,383	42,142	42,948	43,895	44,817	45,608	1.9
WSCC—U.S.*	75,580	77,234	79,571	81,[illegible]73	84,173	86,429	88,549	90,586	92,814	94,958	96,961	2.6

PEAK DEMAND—WINTER (MW)

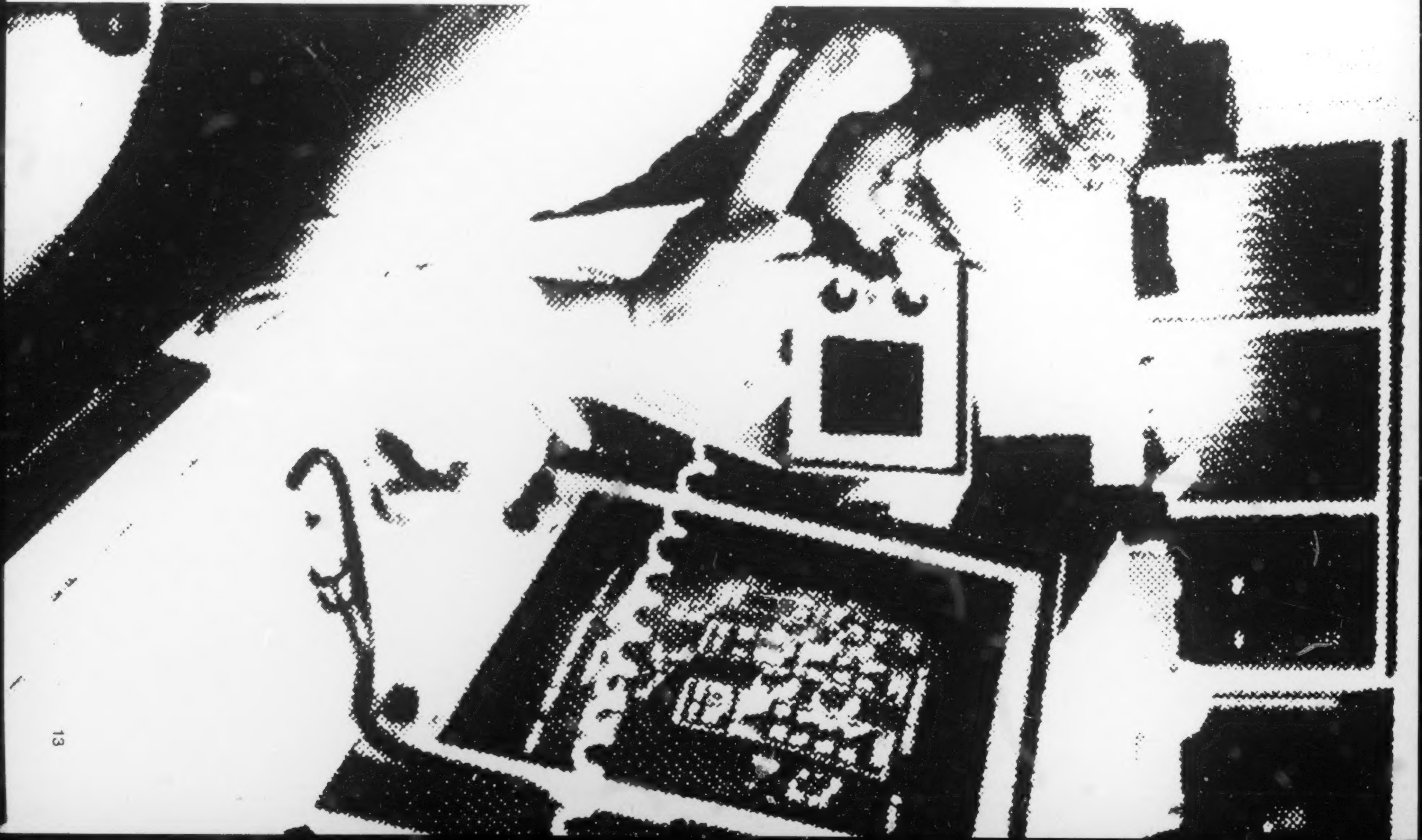
TABLE 3

REGION	ACTUAL 1983/84	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	AVERAGE ANNUAL GROWTH (%) 1984/85-1993/94
ECAR	63,820	64,249	66,322	68,236	70,138	71,968	73,472	75,167	76,882	78,460	79,956	2.5
ERCOT	29,684	27,977	28,748	30,094	31,414	32,640	34,196	35,639	37,218	38,745	40,232	4.1
MAAC	30,150	30,840	31,720	32,300	33,080	33,840	34,470	35,080	35,860	36,570	37,220	2.1
MAIN	28,159	27,957	28,606	29,282	29,938	30,636	31,350	32,109	32,811	33,527	34,254	2.3
MAPP—U.S.	18,807	18,962	19,663	20,246	20,820	21,418	22,001	22,551	23,063	23,617	24,134	2.7
NPCC—U.S.	35,836	36,518	36,956	37,385	37,857	38,839	39,630	40,325	41,147	41,971	42,947	1.8
SERC	91,459	94,993	97,745	100,736	102,675	105,086	107,351	110,092	112,582	115,255	117,936	2.4
SPP	35,799	34,527	35,586	36,704	37,798	38,966	40,217	41,444	42,804	44,110	45,433	3.1
WSCC—U.S.	77,065	73,208	75,414	77,427	79,559	81,387	83,445	85,413	87,514	89,484	89,040	2.2
NERC—U.S.	410,779	409,251	420,760	432,490	443,279	454,780	466,132	477,820	489,881	501,747	511,152	2.5
MAPP—CANADA	4,858	4,884	5,065	5,260	5,446	5,609	5,790	5,953	6,114	6,275	6,434	3.1
NPCC—CANADA	40,208	40,466	42,066	43,764	45,199	45,578	47,988	49,254	51,070	51,773	53,015	3.0
WSCC—CANADA	11,345	11,999	12,764	13,281	13,636	14,228	14,729	15,147	15,607	16,103	16,603	3.7
NERC—CANADA	56,411	57,349	59,895	62,313	64,281	65,415	68,507	70,354	72,791	74,151	76,052	3.2

SUBREGION	ACTUAL 1983/84	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	AVERAGE ANNUAL GROWTH (%) 1984/85-1993/94
CMNWLTH. ED.	11,289	11,120	11,340	11,570	11,800	12,030	12,270	12,520	12,770	13,030	13,290	2.0
EAST MISSOURI	4,928	4,648	4,830	5,002	5,194	5,386	5,578	5,780	5,972	6,174	6,376	3.6
SO. CENT. ILL.	5,460	5,590	5,721	5,873	5,978	6,104	6,235	6,396	6,537	6,678	6,814	2.2
WIUM	6,482	6,599	6,715	6,837	6,966	7,116	7,267	7,413	7,532	7,645	7,774	1.8
MAIN	28,159	27,957	28,606	29,282	29,938	30,636	31,350	32,109	32,811	33,527	34,254	2.3
NEW YORK	19,887	20,050	20,410	20,730	20,920	21,400	21,700	21,910	22,170	22,520	22,910	1.5
NEW ENGLAND	15,949	16,468	16,546	16,655	16,937	17,439	17,930	18,415	18,977	19,451	20,037	2.2
NPCC—U.S.	35,836	36,518	36,956	37,385	37,857	38,839	39,630	40,325	41,147	41,971	42,947	1.8
NEW BRUNSWICK	1,702	1,729	1,789	1,849	1,902	1,958	2,009	2,060	2,112	2,161	2,211	2.8
ONTARIO	18,783	18,762	19,346	19,976	20,543	21,060	21,573	21,954	22,343	22,784	23,284	2.4
QUÉBEC	19,723	19,975	20,931	21,939	22,754	23,560	24,406	25,240	26,615	26,828	27,520	3.6
NPCC—CANADA	40,208	40,466	42,066	43,764	45,199	45,578	47,988	49,254	51,070	51,773	53,015	3.0
FLORIDA	21,887	22,905	23,620	24,217	24,651	25,060	25,498	25,968	26,534	27,114	27,656	2.1
SOUTHERN	18,692	19,004	19,473	19,932	20,386	20,954	21,519	22,094	22,714	23,297	23,868	2.6
TVA	21,269	21,975	22,671	23,799	24,116	24,698	25,092	25,786	26,112	26,596	27,081	2.3
VACAR	29,611	31,109	31,981	32,788	33,522	34,374	35,242	36,244	37,222	38,248	39,331	2.6
SERC	91,459	94,993	97,745	100,736	102,675	105,086	107,351	110,092	112,582	115,255	117,936	2.4
GROUP A	16,325	14,866	15,121	15,539	15,975	16,408	16,818	17,261	17,705	18,101	18,463	2.4
GROUP B	11,376	11,534	11,959	12,414	12,844	13,319	13,814	14,313	14,938	15,542	16,177	3.8
GROUP C	8,098	8,127	8,506	8,751	8,979	9,239	9,585	9,870	10,161	10,475	10,793	3.2
SPP	35,799	34,527	35,586	36,704	37,798	38,966	40,217	41,444	42,804	44,110	45,433	3.1
NWPP—U.S.	35,356	31,556	32,366	33,203	34,076	34,991	35,920	36,728	37,503	38,302	37,164	1.8
RMPA	5,587	5,678	5,965	6,196	6,476	6,694	6,928	7,142	7,383	7,639	7,787	3.6
AZ-NM	6,949	7,161	7,813	8,212	8,542	8,727	9,056	9,409	9,858	10,014	10,117	3.9
CA-SNV	29,484	28,846	29,313	29,856	30,501	31,005	31,565	32,155	32,787	33,541	33,972	1.8
WSCC—U.S.*	77,065	73,208	75,414	77,427	79,559	81,387	83,445	85,413	87,514	89,484	89,040	2.2

FOOTNOTE TO TABLES 2-3

*Since the subregional peak demands may occur in different months than the coincident total WSCC (U.S.) peak demand, the sum of the individual subregional resources based on those peak demands may not always equal the WSCC (U.S.) total.



Planned Resources

Planned Resources data include the total generating capacity which is existing, presently under construction, or in various stages of planning; plus scheduled capacity purchases, less capacity sales; less total generating capacity out of service in deactivated shutdown status.

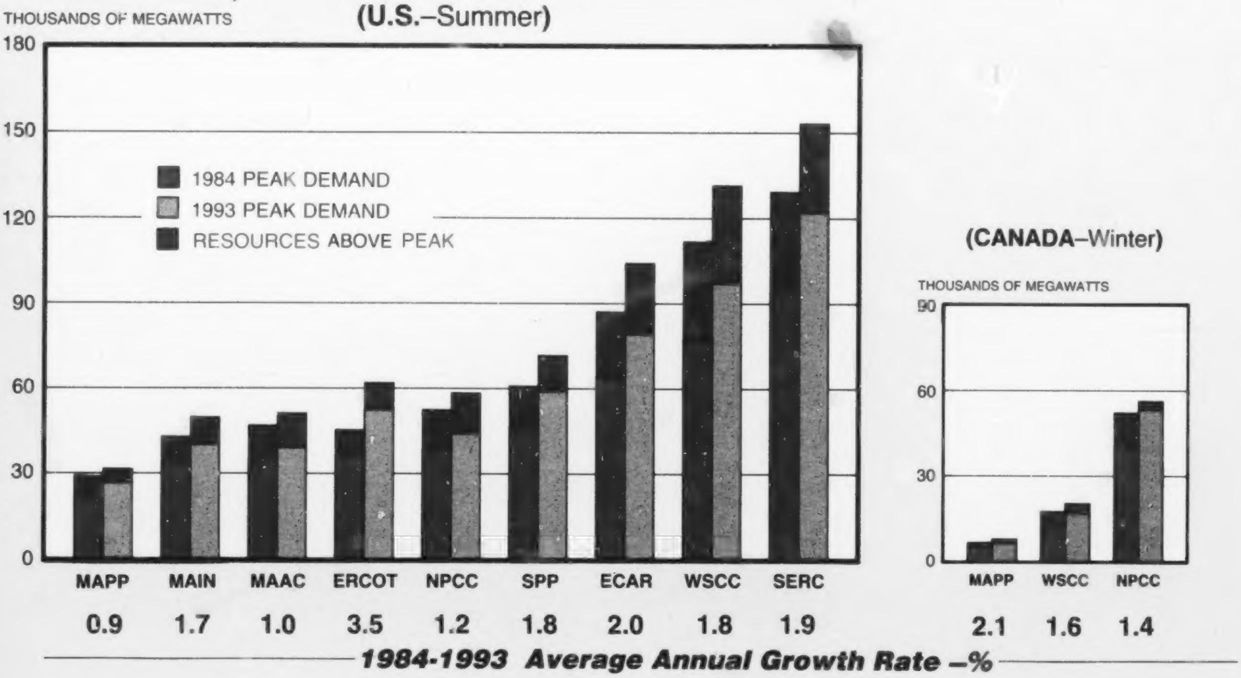
The realization of these resource projections is contingent upon the scheduled completion of that generating capacity which is in various stages of construction, licensing, design, or planning.

The Peak Demands for the various NERC Regions (Tables 2-3) may occur in different months within a given season. The Planned Resources data of Tables 4-5 correspond with the months of these projected Peak Demands. In addition to meeting projected peak demand requirements, these resources are needed to provide for scheduled maintenance and emergency outages of generating units, and for system operating requirements.

Along with showing values of planned annual resources, ten-year average annual growth rates for the Regions and Subregions have been calculated and are provided in the last column of these tables. The average annual growth rate here is calculated by taking the ninth root of the difference between the values for the first and tenth projected years.

For a breakdown by fuel types of the installed generating capability included in these Planned Resources data, refer to Table 8.

NERC Planned Resources Over Peak Demands



PLANNED RESOURCES—SUMMER (MW)

TABLE 4

REGION	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	AVG. ANNUAL GROWTH (%) 1984-1993
ECAR	87,096	94.049	97.535	99.040	101.029	100.729	101.044	101.982	102.693	104.284	2.0
ERCOT	45,454	46,949	48.859	51.457	51,954	55.123	56.142	57.928	59.853	61,993	3.5
MAAC	47.013	49,315	49.126	50.013	50,015	50.390	52.324	51,363	51,095	51.276	1.0
MAIN	43.035	45,540	47.763	49.807	49.515	49.551	49.665	49.684	49.484	49,889	1.7
MAPP—U.S.	29.134	29,172	29,230	29,439	30.181	30,148	30.205	30.785	30.781	31,711	0.9
NPCC—U.S.	52,556	54,028	56,122	56,658	56,344	56.290	56,283	58.839	58.504	58,396	1.2
SERC	129,309	133.248	135.573	139.163	140.896	145.381	146.339	149.537	151.551	153.247	1.9
SPP	60.903	66,461	67.848	67,813	67,605	67.479	68.890	70.016	69.813	71,700	1.8
WSCC—U.S.	111,831	117.543	120.761	123.078	123,614	123.857	126,492	129.723	130.498	131,591	1.8
NERC—U.S.	606.331	636,305	652.817	666,468	671,153	678.948	687.384	699.857	704.272	714.087	1.8
MAPP—CANADA	6.380	6,380	6,632	6.570	6.570	6.570	6.570	6.570	6,570	7,570	1.9
NPCC—CANADA	49.680	50,644	50,919	52,121	53.069	54.000	54.033	53,493	54,883	56,230	1.4
WSCC—CANADA	17.099	17,849	18,215	18,581	18.967	19.350	19.304	19,437	19,797	20,157	1.8
NERC—CANADA	73,159	74,873	75.766	77,272	78.606	79,920	79.907	79.5	81,250	83,957	1.5

SUBREGION	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	AVG. ANNUAL GROWTH (%) 1984-1993
CMNWLTH. ED.	18.081	18.934	20,919	22,234	21,922	21.922	21.922	21,922	21.922	21,922	2.2
EAST MISSOURI	7.111	7,987	7,993	7.998	7,999	7.999	8.035	8.045	8.046	8.341	1.8
SO. CENT. ILL.	8,891	8.736	8.736	9.686	9.686	9,723	9.839	9.839	9.764	9.874	1.2
WIUM	8.952	9,883	10.115	9,889	9.908	9.907	9.869	9.878	9,752	9.752	1.0
MAIN	43,035	45.540	47.763	49.807	49,515	49.551	49.665	49.684	49.484	49,889	1.7
NEW YORK	31.186	32,627	32.630	33.174	33,172	33.184	33.185	34,534	34.544	34,546	1.1
NEW ENGLAND	21.370	21,401	23,492	23,484	23.172	23.106	23.098	24,305	23,960	23,850	1.2
NPCC—U.S.	52,556	54,028	56,122	56,658	56.344	56.290	56.283	58.839	58,504	58,396	1.2
NEW BRUNSWICK	2,666	2.616	2,749	2.749	2.749	2.749	2.749	2.749	3.139	3.139	1.8
ONTARIO	21.133	22.625	22,896	24.077	24.473	25.371	25.389	24.834	25.508	26,389	2.5
QUÉBEC	25,881	25,403	25,274	25.295	25,847	25.880	25.895	25,910	26,236	26,702	0.3
NPCC—CANADA	49.680	50,644	50.919	52,121	53,069	54.000	54,033	53,493	54.883	56,230	1.4
FLORIDA	27,868	30,632	30.624	31,662	31,974	32,526	32.504	32,504	33,520	32,720	1.8
SOUTHERN	30,510	29,898	29.828	31.105	31,155	33.846	33.761	35.057	35,755	36,996	2.2
TVA	28.918	30,468	30.468	31,638	31,838	33.015	33.015	34,192	34,192	34,192	1.9
VACAR	42,013	42,250	44,653	44.758	45,929	45.994	47.059	47,784	48,084	49,339	1.8
SERC	129,309	133,248	135,573	139.163	140,896	145.381	146.339	149,537	151,551	153,247	1.9
GROUP A	26.128	29,076	30.176	29,883	29,845	29.449	30,108	29,926	29,156	29,843	1.5
GROUP B	20,151	21,785	22.041	22.341	22,229	22.544	23.044	23.579	24.080	25,028	2.4
GROUP C	14,624	15,600	15.631	15.589	15,531	15,486	15.738	16.511	16,577	16,829	1.6
SPP	60,903	66,461	67,848	67.813	67,605	67.479	68,890	70.016	69.813	71,700	1.8
NWPP—U.S.	40,550	41,431	44,109	44,671	45.261	45,383	47,285	48,982	49.575	49,587	2.3
RMPA	9.106	9,208	9.382	9,530	9.655	9.828	10.386	10,228	10,336	10,908	2.0
AZ-NM	12,371	13,521	14,361	15,610	15,688	15.650	16,268	17,190	17,174	17,820	4.1
CA-SNV	50,366	51,844	53,206	54.145	54,550	54.834	55.535	56,179	57,038	57,129	1.4
WSCC—U.S.*	111.831	117,543	120.761	123,078	123.614	123.857	126,492	129,723	130,498	131,591	1.8

PLANNED RESOURCES—WINTER (MW)

TABLE 5

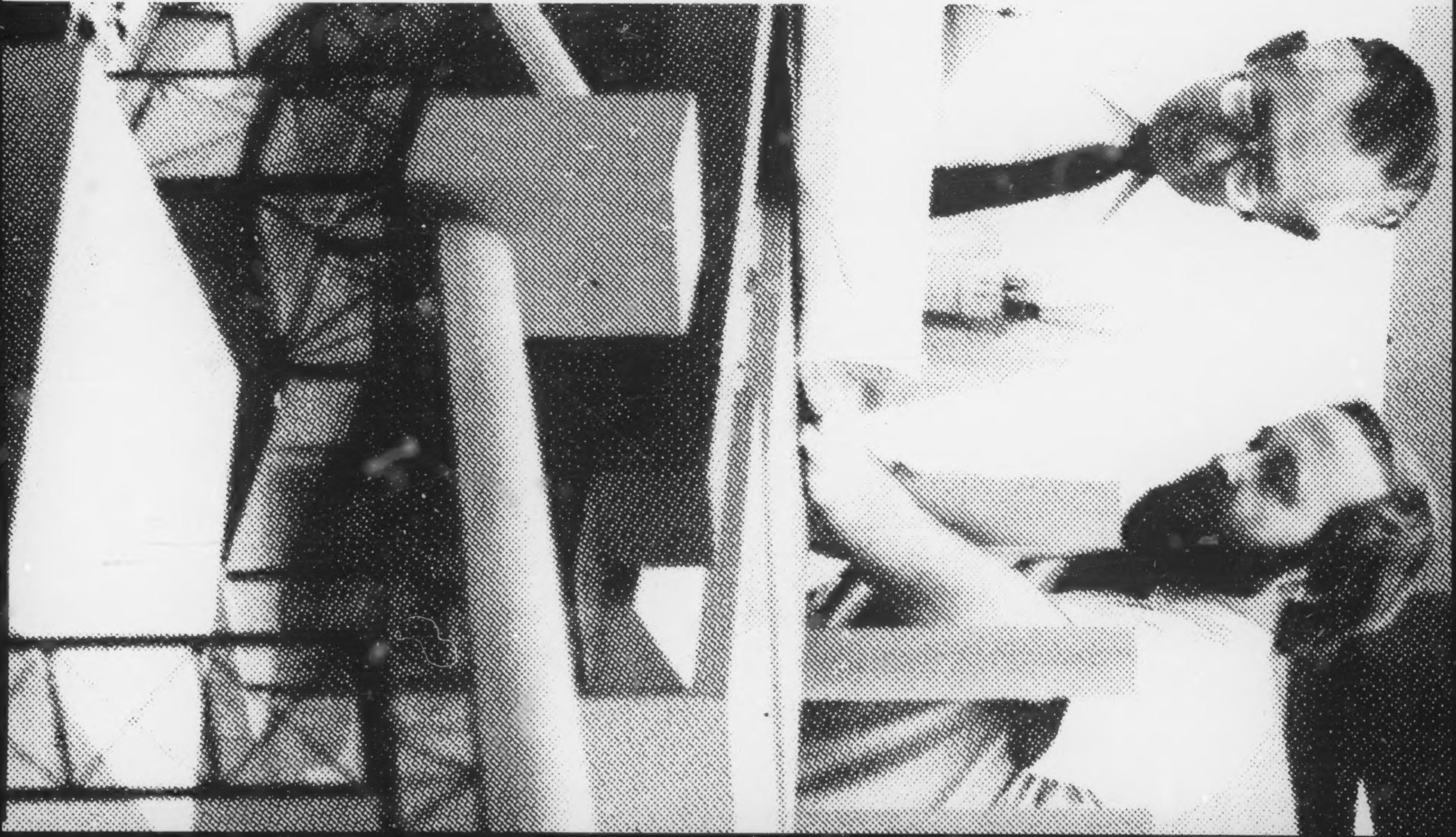
REGION	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	AVERAGE ANNUAL GROWTH (%) 1984/85-1993/94
ECAR	94,007	97,300	100.261	100.327	191,990	103.048	103.018	103,603	105,076	106,487	1.4
ERCOT	46,605	47,089	49,385	51,581	53,428	55,677	56,628	58,133	60.655	62,788	3.4
MAAC	50,754	51,932	51,528	52,533	52,535	52.870	54,070	53,659	53,340	53,771	0.6
MAIN	44,652	46,476	49.671	50,814	50,437	50.302	50.661	50,469	50,468	50,872	1.5
MAPP—U.S.	29,121	28,905	29,303	29,960	30.016	30,039	30.809	30,759	31,248	32,476	1.2
NPCC—U.S.	53,967	54,624	57,495	57,144	57,051	57.102	59.618	59.328	59,217	60,046	1.2
SERC	130,780	136,573	139.072	142,748	144.793	148.199	148.106	151.977	154,776	156,093	2.0
SPP	61,757	67,891	68.121	67,933	67,869	67,667	69.327	70,027	70,188	72,126	1.7
WSCC—U.S.	113,361	119.529	121,780	123.938	124,248	125.918	127.063	130.088	131,311	132,243	1.7
NERC—U.S.	625,004	650,319	666.616	676.978	682,367	690,822	699.300	708.043	716,279	726,902	1.7
MAPP—CANADA	6,413	6.488	6,656	6.594	6,594	6.594	6.594	6,594	7,114	7,714	2.1
NPCC—CANADA	52,102	54,100	55,731	55,889	56.217	57,149	57,181	57,913	58,559	59,146	1.4
WSCC—CANADA	17,487	18,031	18.153	18,519	19,095	19,234	19.124	19,484	19,844	20,204	1.6
NERC—CANADA	76,002	78,619	80,540	81,002	81.906	82.977	82,899	83,991	85,517	87,064	1.5

SUBREGION	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	AVERAGE ANNUAL GROWTH (%) 1984/85-1993/94
CMNWLTH. ED.	19,690	19,423	21.438	22,783	22,471	22.471	22.471	22,471	22,471	22,471	1.5
EAST MISSOURI	6,915	8,035	8.040	8.045	8.045	8.045	8.080	8,090	8,090	8,385	2.2
SO. CENT. ILL.	8,908	8.908	9,858	9,858	9.793	9.693	10.007	9,932	9,932	10,042	1.3
WIUM	9,139	10,110	10,335	10,128	10,128	10,093	10,103	9,976	9,975	9,974	1.0
MAIN	44,652	46,476	49.671	50,814	50,437	50.302	50.661	50.469	50,468	50,872	1.5
NEW YORK	32,052	32,860	33.419	33.385	33,360	33.433	34.722	34.777	34,781	35,735	1.2
NEW ENGLAND	21,915	21,764	24,076	23,759	23,691	23,669	24.896	24.551	24,436	24,311	1.2
NPCC—U.S.	53,967	54,624	57,495	57,144	57,051	57,102	59,618	59,328	59,217	60,046	1.2
NEW BRUNSWICK	2,616	2,749	2,749	2.749	2.749	2,749	2.749	3.139	3.139	3,139	2.0
ONTARIO	23.031	22,993	24,453	24.540	24,866	25.765	25,782	26,109	26,765	26,876	1.7
QUÉBEC	26,455	28,358	28,529	28,600	28,602	28,635	28,650	28,665	28,655	29,131	1.1
NPCC—CANADA	52,102	54,100	55,731	55,889	56,217	57.149	57.181	57,913	58,559	59,146	1.4
FLORIDA	28,973	31,757	32,232	33,096	33,648	33.648	33.624	34,160	34,760	33,960	1.8
SOUTHERN	29.096	29,907	29.146	30.998	32,415	33.654	33.505	34,943	36.087	36,954	2.7
TVA	31,094	31,094	32.264	32,064	32,064	33.241	33.241	34.418	34,418	34,418	1.1
VACAR	41,617	43,915	45,430	46,590	46,666	47,656	47,736	48,456	49,511	50,761	2.2
SERC	130,780	136,573	139,072	142,748	144.793	148,199	148.106	151,977	154,776	156.093	2.0
GROUP A	26,553	30,200	30,058	29,862	29,845	29.333	30,051	29,871	29,156	30,383	1.5
GROUP B	20.515	21,866	22.262	22,297	22,312	22.586	23,556	23.663	24,272	25,049	2.2
GROUP C	14,689	15,825	15,801	15,774	15,712	15,748	15,720	16,493	16,760	16,694	1.4
SPP	61,757	67,891	68.121	67,933	67,869	67.667	69,327	70.027	70,188	72,126	1.7
NWPP—U.S.	42,565	45,735	46,420	47,043	47,162	48,411	48,420	50.011	50,102	50,401	1.9
RMPA	9,323	9,399	9.588	9.654	9,718	9.804	10.277	10.272	10,675	10,994	1.8
AZ-NM	13,133	13,926	14.840	15,245	15,581	15,463	16.273	16.936	17,342	17,738	3.4
CA-SNV	48,541	50,657	51,142	52,641	52,628	52,893	53,030	53,869	54,546	54,495	1.3
WSCC—U.S.*	113,361	119,529	121,780	123,938	124,248	125,918	127,063	130,088	131,311	132,243	1.7

CONTINUED

FOOTNOTE TO TABLES 4-5

*Since the subregional peak demands may occur in different months than the coincident total WSCC (U.S.) peak demand, the sum of the individual subregional resources based on those peak demands may not always equal the WSCC (U.S.) total.

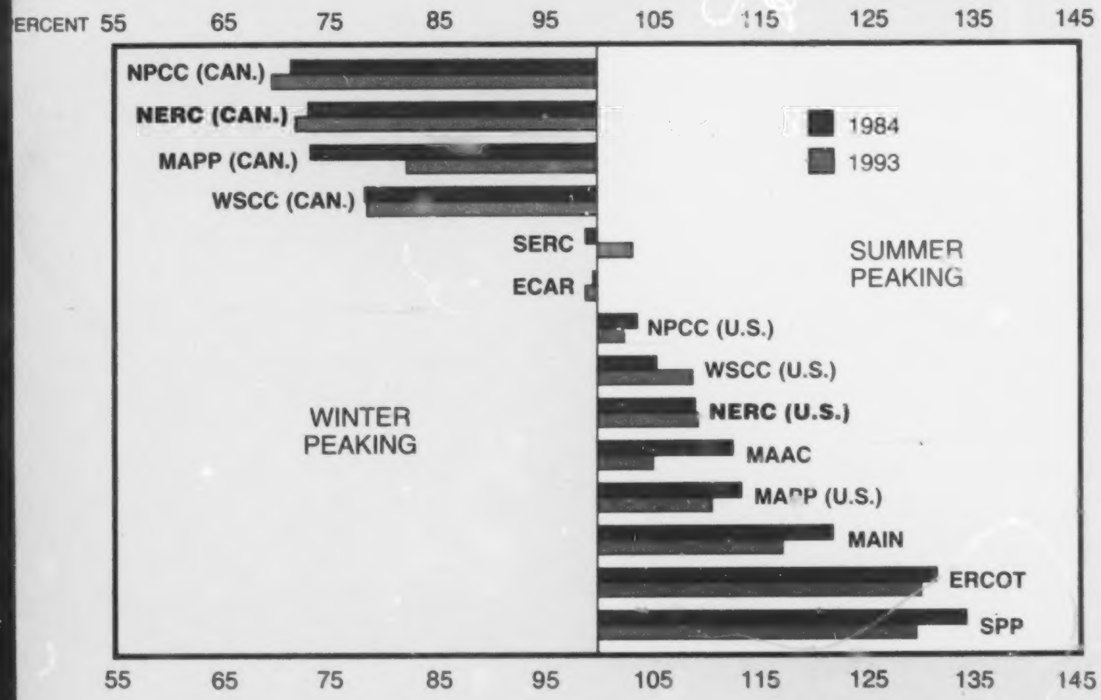


Summer/Winter Peak Demand Ratios

The relationships between the summer and winter peak demands of the NERC Regions and Subregions are expressed in the following tables as a percent: the summer peak divided by the peak of the following winter.

The seasonal demand ratios range from the heavy winter peaking NPCC (Canada) to the heavy summer peaking SPP and ERCOT.

NERC Summer/Winter Peak Demand Ratios



SUMMER/WINTER PEAK DEMAND RATIOS (Percent)

TABLE 6

REGION	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
ECAR	99.6	99.9	100.0	99.5	99.3	99.4	99.2	99.0	99.0	98.9
ERCOT	131.7	133.2	132.1	132.4	131.9	131.3	131.1	130.6	130.0	130.3
MAAC	112.6	110.9	110.4	109.3	108.4	107.7	107.1	106.1	105.6	105.2
MAIN	122.0	122.5	121.7	121.2	120.4	119.7	118.8	118.3	117.8	117.3
MAPP—U.S.	113.4	113.3	112.7	112.2	111.6	111.4	111.5	110.9	110.8	110.7
NPCC—U.S.	103.7	104.0	104.1	104.4	103.8	103.6	103.3	102.9	102.9	102.5
SERC	98.9	100.3	100.2	101.3	101.6	102.1	102.2	102.7	102.7	103.3
SPP	134.5	133.6	132.7	132.5	132.1	131.6	131.1	130.7	130.3	129.8
WSCC—U.S.	105.5	105.5	105.5	105.8	106.2	106.1	106.1	106.1	106.1	108.9
NERC—U.S.	109.1	109.5	109.2	109.4	109.3	109.2	109.1	109.0	108.9	109.4
MAPP—CANADA	73.2	71.6	71.2	71.8	71.8	71.6	71.9	71.9	72.1	72.2
NPCC—CANADA	71.4	71.3	71.0	70.7	71.8	70.0	69.9	68.9	69.5	69.6
WSCC—CANADA	78.3	77.0	77.4	77.6	77.8	77.9	78.2	78.4	78.5	78.5
NERC—CANADA	73.0	72.6	72.4	72.2	73.1	71.9	71.9	71.2	71.7	71.8

SUBREGION	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
CMNWLTH. ED.	128.1	130.5	130.5	130.5	130.5	130.4	130.2	130.4	130.5	130.5
EAST MISSOURI	135.1	131.5	128.0	124.9	121.7	119.0	116.2	113.9	111.6	109.5
SO. CENT. ILL.	117.4	117.3	116.2	116.1	115.0	114.5	113.9	113.2	112.7	112.3
WIUM	106.4	107.1	106.9	106.9	106.7	106.4	106.0	105.9	105.7	105.3
MAIN	122.0	122.5	121.7	121.2	120.4	119.7	118.8	118.3	117.8	117.3
NEW YORK	108.8	108.9	108.6	109.1	108.2	107.9	107.7	107.4	107.2	107.1
NEW ENGLAND	97.6	98.1	98.5	98.6	98.3	98.3	98.1	97.7	97.9	97.2
NPCC—U.S.	103.7	104.0	104.1	104.4	103.8	103.6	103.3	102.9	102.9	102.5
NEW BRUNSWICK	72.4	71.7	70.9	70.4	70.1	69.9	69.8	69.6	69.6	69.4
ONTARIO	80.1	80.6	80.6	80.8	81.0	81.0	81.6	81.6	81.4	81.2
QUÉBEC	63.1	62.7	62.2	61.5	60.6	60.3	59.8	58.2	59.3	59.8
NPCC—CANADA	71.4	71.3	71.0	70.7	71.8	70.0	69.9	68.9	69.5	69.6
FLORIDA	88.9	88.9	89.2	89.7	90.6	91.0	91.6	92.4	92.3	93.8
SOUTHERN	118.5	119.0	120.1	120.5	120.6	120.4	120.3	120.1	120.1	120.2
TVA	88.7	95.1	94.2	98.3	98.3	99.6	99.4	100.3	100.2	100.9
VACAR	101.4	101.0	100.7	100.3	100.3	100.7	100.8	101.1	101.3	101.4
SERC	98.9	100.3	100.2	101.3	101.6	102.1	102.2	102.7	102.7	103.3
GROUP A	132.6	132.4	131.1	131.0	131.2	131.5	131.3	131.4	131.9	132.1
GROUP B	136.6	136.9	135.9	135.4	134.6	133.9	133.3	132.4	131.3	129.9
GROUP C	134.9	131.2	130.9	130.8	130.2	128.6	127.7	127.0	126.1	125.6
SPP	134.5	133.6	132.7	132.5	132.1	131.6	131.1	130.7	130.3	129.8
NWPP—U.S.	76.0	75.5	75.1	74.9	75.0	75.0	75.2	75.1	75.0	78.8
RMPA	104.4	104.4	104.8	104.6	104.9	104.7	104.9	104.4	104.1	105.4
AZ-NM	132.1	131.0	131.8	132.8	134.9	135.0	134.6	133.3	135.5	138.0
CA-SNV	133.1	132.6	132.3	132.9	133.5	133.5	133.6	133.9	133.6	134.3
WSCC—U.S.	105.5	105.5	105.5	105.8	106.2	106.1	106.1	106.1	106.1	108.9

Load Factors

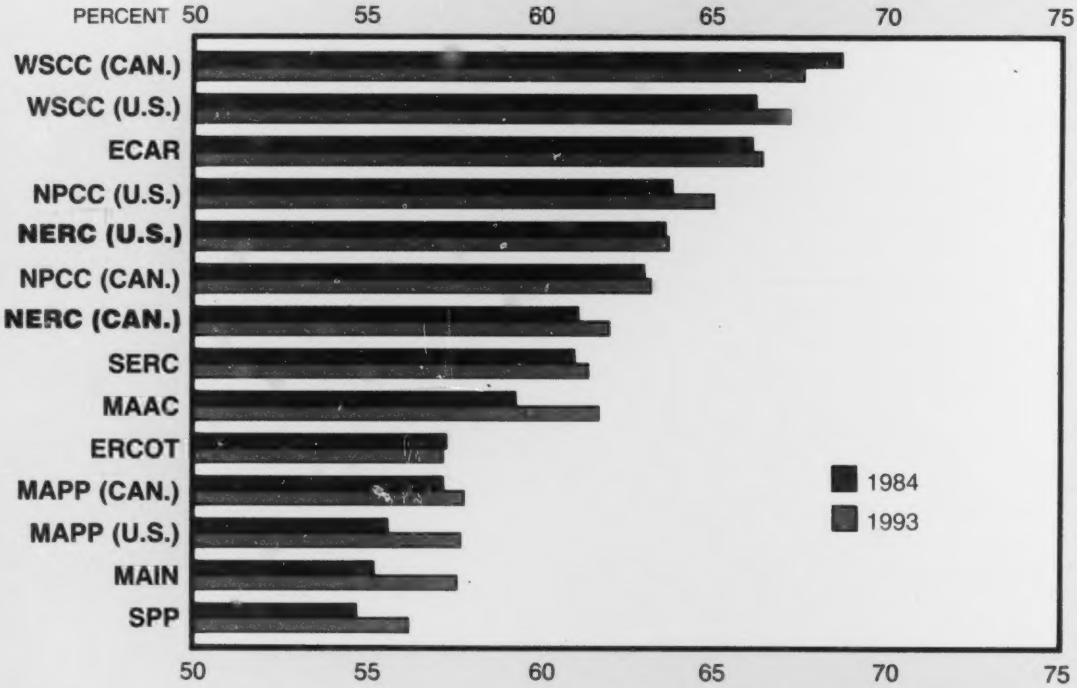
The load factors of the NERC Regions and Subregions are expressed as a percent in the following tables. Load factor is the ratio of average load to peak load for a specified period of time.

Load Factors are calculated from *Net Energy for Load* (Table 1) divided by the greater of *Summer* or previous *Winter Peak Demands* (Tables 2-3) multiplied by the number of hours per year.

The lower load factors are generally found in areas with a high seasonal peak and little heavy industry. High load factors usually reflect a moderate, balanced climate or a heavier mix of industrial loads.

Regional load factors range from the mid-50's in SPP to the high 60's in WSCC.

NERC Load Factors



LOAD FACTORS (Percent)

TABLE 7

REGION	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
ECAR	66.1	66.1	66.0	66.2	66.6	66.7	66.5	66.5	66.4	66.4
ERCOT	57.3	57.2	56.7	56.6	56.8	56.8	56.9	57.0	57.1	57.2
MAAC	59.3	59.8	59.8	60.1	60.4	60.6	61.0	61.3	61.5	61.7
MAIN	55.2	55.4	56.0	56.6	56.8	57.1	57.3	57.4	57.5	57.6
MAPP—U.S.	55.6	55.5	56.1	56.5	56.9	57.0	57.1	57.4	57.5	57.7
NPCC—U.S.	63.8	63.8	63.8	63.9	64.0	64.2	64.4	64.6	64.8	65.0
SERC	61.0	61.2	61.4	61.6	61.6	61.6	61.7	61.6	61.7	61.4
SPP	54.7	55.3	55.5	55.6	55.7	55.8	55.9	56.0	56.2	56.2
WSCC—U.S.	66.2	66.3	66.7	66.5	66.6	66.7	66.9	66.9	67.1	67.2
NERC—U.S.	61.1	61.2	61.4	61.5	61.7	61.8	61.9	61.9	62.0	62.0
MAPP—CANADA	57.2	58.0	57.9	57.9	57.9	57.8	57.7	57.7	57.8	57.8
NPCC—CANADA	63.0	65.0	64.9	64.3	64.1	65.2	63.6	63.4	62.7	63.2
WSCC—CANADA	68.7	68.1	67.0	66.4	67.6	67.3	67.0	67.3	67.5	67.6
NERC—CANADA	63.6	65.1	64.8	64.2	64.3	65.0	63.8	63.8	63.3	63.7

SUBREGION	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
NEW YORK	63.2	63.0	62.9	63.1	63.1	63.3	63.4	63.6	63.8	63.9
NEW ENGLAND	64.6	63.9	64.4	65.1	65.3	65.5	65.7	66.0	66.2	66.5
NPCC—U.S.	63.8	63.8	63.8	63.9	64.0	64.2	64.4	64.6	64.8	65.0
NEW BRUNSWICK	62.0	63.8	64.1	64.1	64.1	63.9	63.8	63.6	63.5	63.4
ONTARIO	66.2	68.5	68.6	68.5	68.6	68.4	68.4	68.4	68.6	68.4
QUÉBEC	60.0	61.8	61.5	60.4	60.0	59.7	59.3	59.1	57.7	58.8
NPCC—CANADA	63.0	65.0	64.9	64.3	64.1	65.2	63.6	63.4	62.7	63.2
FLORIDA	53.7	54.2	54.2	54.7	55.4	56.2	57.0	57.6	58.5	58.8
SOUTHERN	58.5	58.5	58.2	58.2	58.1	58.1	58.2	58.2	58.3	58.2
TVA	62.7	66.1	67.1	67.5	67.6	67.1	66.8	66.5	66.3	65.8
VACAR	60.3	60.5	60.5	61.0	60.9	61.0	60.9	60.9	60.9	60.7
SERC	61.0	61.2	61.4	61.6	61.6	61.6	61.7	61.6	61.7	61.4
GROUP A	59.5	60.2	60.2	60.1	60.1	60.0	59.9	59.8	59.8	59.7
GROUP B	52.8	53.7	53.9	54.2	54.3	54.5	54.7	54.8	55.2	55.2
GROUP C	48.7	48.7	49.3	49.6	49.7	50.2	50.5	50.9	51.3	51.6
SPP	54.7	55.3	55.5	55.6	55.7	55.8	55.9	56.0	56.2	56.2
NWPP—U.S.	57.9	66.7	66.9	66.9	67.2	67.1	66.9	67.0	67.2	67.0
RMPA	65.6	64.2	64.3	64.6	65.0	65.2	65.3	65.4	65.5	65.6
AZ-NM	55.0	53.9	56.7	56.7	56.8	56.7	56.6	56.4	56.5	56.8
CA-SNV	56.3	57.0	57.1	56.7	56.6	56.8	57.0	57.1	57.2	57.4
WSCC—U.S.	66.2	66.3	66.7	66.5	66.6	66.7	66.9	66.9	67.1	67.2

Generating Capability by Fuel

Generating Capability data provide a breakdown by principal capacity and fuel types of the total generating capacity which is existing, presently under construction, or in various stages of planning; plus equipment upgradings, less deratings; less equipment removals.

The realization of these Generating Capability projections is contingent upon the scheduled completion of that generating capacity which is in various stages of construction, licensing, design, or planning.

The Peak Demands as tabulated for the various NERC Regions (Tables 2-3) may occur in different months within a given season. These Generating Capability data of Table 8 correspond with the months of these projected Peak Demands, and are based on summer seasonal ratings.

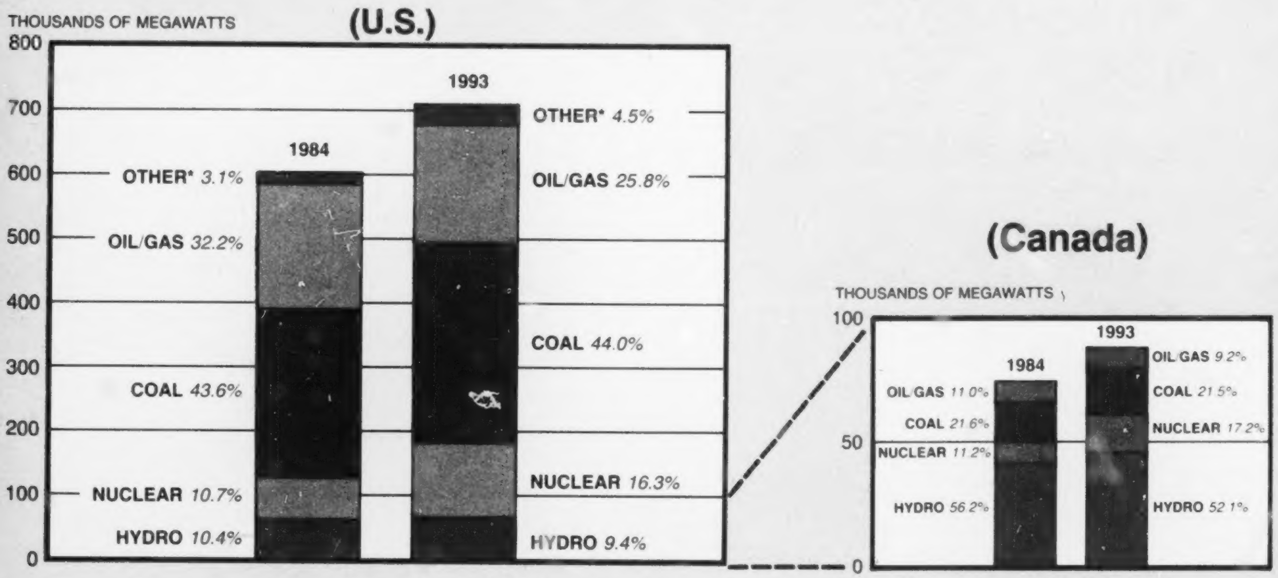
For tabulations of the total planned resources, which include scheduled capacity purchases and sales in addition to installed generating capability, refer to Tables 4-5.

Share of Actual Generating Capability, 1983

	U.S.	CAN.
OTHER	2.5%*	0.0%
OIL/GAS	33.1%	12.1%
COAL	43.0%	22.6%
NUCLEAR	9.9%	10.2%
HYDRO	11.5%	55.1%

*Includes pumped storage.

NERC Generating Capability
By Fuel



*Other includes pumped storage.

GENERATING CAPABILITY BY FUEL
TOTAL (MW)

TABLE 8

REGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
ECAR	90,914	90,123	95,425	98,170	100,463	102,451	101,844	102,161	102,341	102,854	103,997
ERCOT	43,800	44,866	46,310	48,153	50,875	51,158	54,091	55,468	57,264	59,206	61,346
MAAC	46,734	45,431	47,773	47,584	48,496	48,498	48,873	50,807	50,606	50,538	51,169
MAIN	40,797	42,573	45,760	47,978	50,018	50,037	50,074	50,182	50,192	49,992	49,954
MAPP—U.S.	27,952	28,703	28,641	28,893	29,112	29,800	29,777	29,335	30,231	30,228	31,155
NPCC—U.S.	50,508	50,791	52,174	54,481	55,425	55,319	55,298	55,299	57,863	57,690	57,590
SERC	124,999	128,993	133,548	136,273	139,963	141,596	146,081	146,139	149,337	150,651	152,347
SPP	59,294	60,424	65,622	67,004	66,796	66,752	66,682	68,285	69,556	70,105	71,940
WSCC—U.S.	111,451	111,605	117,360	120,411	122,728	123,264	123,507	125,942	129,213	129,988	131,081
NERC—U.S.	596,449	603,509	632,613	648,947	663,876	668,875	676,227	684,118	696,603	701,252	710,579
MAPP—CANADA	6,370	6,380	6,380	6,632	6,570	6,570	6,570	6,570	6,570	6,570	7,570
NPCC—CANADA	48,014	51,681	55,257	56,086	56,908	57,856	58,787	58,820	58,852	60,077	61,447
WSCC—CANADA	15,305	17,099	17,549	17,915	18,281	18,667	19,050	19,004	19,137	19,497	19,857
NERC—CANADA	69,689	75,160	79,186	80,633	81,759	83,093	84,407	84,394	84,559	86,144	88,874

SUBREGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
CMNWLTH. ED.	15,427	17,502	18,622	20,832	21,922	21,922	21,922	21,922	21,922	21,922	21,922
EAST MISSOURI	7,087	7,087	8,207	8,207	8,207	8,207	8,207	8,237	8,237	8,237	8,237
SO. CENT. ILL.	9,087	9,020	9,030	9,030	9,980	9,980	10,017	10,133	10,133	10,058	10,020
WIUM	9,196	8,964	9,901	9,909	9,909	9,928	9,928	9,890	9,900	9,775	9,775
MAIN	40,797	42,573	45,760	47,978	50,018	50,037	50,074	50,182	50,192	49,992	49,954
NEW YORK	29,758	30,159	31,595	31,598	32,542	32,540	32,552	32,553	33,902	33,912	33,914
NEW ENGLAND	20,750	20,632	20,579	22,883	22,883	22,779	22,746	22,746	23,961	23,778	23,676
NPCC—U.S.	50,508	50,791	52,174	54,481	55,425	55,319	55,298	55,299	57,863	57,690	57,590
NEW BRUNSWICK	3,159	3,159	3,159	3,159	3,159	3,159	3,159	3,159	3,159	3,159	3,159
ONTARIO	24,963	26,151	28,187	28,973	29,754	30,670	31,568	31,586	31,603	32,502	33,383
QUÉBEC	19,892	22,371	23,911	23,954	23,995	24,027	24,060	24,075	24,090	24,416	24,905
NPCC—CANADA	48,014	51,681	55,257	56,086	56,908	57,856	58,787	58,820	58,852	60,077	61,447
FLORIDA	26,504	26,908	28,632	28,624	29,162	29,574	30,126	30,104	30,104	31,120	31,520
SOUTHERN	30,426	31,454	32,278	32,308	34,205	34,255	36,946	36,861	38,157	38,155	38,196
TVA	29,324	29,498	30,668	30,668	31,838	31,838	33,015	33,015	34,192	34,192	34,192
VACAR	38,745	41,133	41,970	44,673	44,758	45,929	45,994	46,159	46,884	47,184	48,439
SERC	124,999	128,993	133,548	136,273	139,963	141,596	146,081	146,139	149,337	150,651	152,347
GROUP A	24,665	25,078	27,618	28,636	28,249	28,225	27,855	28,648	28,466	28,411	29,098
GROUP B	20,501	21,057	22,664	22,984	23,159	23,119	23,419	24,144	24,767	25,251	26,199
GROUP C	14,128	14,289	15,340	15,384	15,388	15,408	15,408	15,493	16,323	16,443	16,643
SPP	59,294	60,424	65,622	67,004	66,796	66,752	66,682	68,285	69,556	70,105	71,940
NWPP—U.S.	45,479	43,345	44,130	46,587	46,097	46,107	46,118	47,957	49,650	49,744	49,758
RMPA	9,052	9,777	9,867	10,039	10,110	10,166	10,177	10,671	10,726	10,726	11,333
AZ-NM	12,097	11,965	13,566	14,513	15,831	15,836	15,990	16,186	16,974	17,074	17,414
CA-SNV	45,010	46,946	48,011	49,826	50,690	51,155	51,222	51,715	52,450	53,031	53,123
WSCC—U.S.*	111,451	111,605	117,360	120,411	122,728	123,264	123,507	125,942	129,213	129,988	131,081

GENERATING CAPABILITY BY FUEL
COAL (MW)

TABLE 8

REGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
ECAR	76,141	76,545	78.674	80.438	82.233	82,174	82.174	82,230	82,230	82.050	82,870
ERCOT	11,091	11,091	11,091	11.811	12,996	13,135	14.848	16.425	18.197	19,371	21,291
MAAC	12,109	12,097	12,097	12,097	12.097	12.097	12.097	12,097	12,097	12.097	12,722
MAIN	27,057	26,960	27.897	27.905	27,905	27.917	27,854	27,650	27.650	27,450	27,412
MAPP—U.S.	17,612	18,557	18,549	18.995	19,203	20.020	20.006	19,997	20.503	20,503	21,431
NPCC—U.S.	5,577	5,622	6,349	6.986	8,047	9.247	9.851	9,851	9.851	9,911	9,911
SERC	60.357	63,405	66,059	66,270	67.630	68,042	70.067	69,913	71,299	72,199	73,886
SPP	21.601	22,763	25.091	25,751	25,751	25.751	25,751	26,336	27.216	27,967	29,590
WSCC—U.S.	24.856	26,092	27,938	28,736	29,895	30.060	30.075	30,575	32,204	32,707	33,674
NERC—U.S.	256,401	263.132	273.745	278.989	285,757	288,443	292.723	295,074	301,247	304,255	312,787
MAPP—CANADA	1,959	1,969	1.969	1,969	1,907	1.907	1,907	1,907	1,907	1,907	2,187
NPCC—CANADA	10,099	10,099	10,305	10,305	10,305	10.305	10,305	10,305	10,305	10,305	10,305
WSCC—CANADA	3.716	4,160	4,160	4.526	4,892	5.278	5.664	5,664	5.904	6.264	6,624
NERC—CANADA	15,774	16,228	16,434	16,800	17,104	17,490	17.876	17,876	18,116	18,476	19,116

SUBREGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
CMNWLTH. ED.	6,911	6.890	6,890	6,890	6.890	6.890	6.890	6.890	6,890	6,890	6,890
EAST MISSOURI	5,596	5,596	5,596	5.596	5.596	5.596	5.596	5.596	5.596	5.596	5,596
SO. CENT. ILL.	8,215	8,161	8.171	8.171	8.171	8.171	8.108	7.900	7,900	7,825	7,787
WIUM	6,335	6,313	7,240	7,248	7.248	7.260	7.260	7,264	7,264	7,139	7,139
MAIN	27,057	26,960	27,897	27.905	27,905	27,917	27.854	27,650	27.650	27,450	27,412
NEW YORK	3,383	3,383	3.968	4.355	5,416	6.242	6,472	6.472	6.472	6,472	6,472
NEW ENGLAND	2,194	2,239	2.381	2.631	2.631	3.005	3,379	3.379	3,379	3,439	3,439
NPCC—U.S.	5,577	5,622	6.349	6,986	8.047	9.247	9,851	9.851	9.851	9,911	9,911
NEW BRUNSWICK	282	282	282	282	282	282	282	282	282	282	282
ONTARIO	9,817	9.817	10,023	10,023	10,023	10.023	10.023	10.023	10.023	10,023	10,023
QUÉBEC	0	0	0	0	0	0	0	0	0	0	0
NPCC—CANADA	10,099	10,099	10,305	10.305	10,305	10,305	10,305	10,305	10.305	10,305	10,305
FLORIDA	3,715	4,562	6,428	6,639	7,191	7,603	8,155	8,155	8,155	8.755	9,155
SOUTHERN	20.778	21,666	22,284	22,284	23,092	23,092	24.565	24,411	25,077	25,077	25,114
TVA	16,167	16,109	16,109	16.109	16,109	16,109	16,109	16,109	16.109	16,109	16,109
VACAR	19,697	21,068	21,238	21,238	21,238	21,238	21,238	21,238	21,958	22,258	23,508
SERC	60,357	63,405	66.059	66,270	67,630	68,042	70.067	69.913	71.299	72,199	73,886
GROUP A	4,421	4.961	5,726	6.046	6,046	6.046	6,046	6.046	6.046	6,046	6,846
GROUP B	7.266	7,721	9,314	9,634	9,634	9.634	9.634	10.159	10,209	10,810	11,433
GROUP C	9,914	10,081	10,051	10,071	10,071	10,071	10.071	10,131	10.961	11,111	11,311
SPP	21,601	22,763	25,091	25.751	25,751	25,751	25,751	26,336	27,216	27,967	29,590
NWPP—U.S.	9,025	9,725	10,375	11,075	11,142	11,142	11,143	11,145	11,578	11,612	11,616
RMPA	5,543	6,063	6,075	6,091	6.091	6.121	6.131	6.616	6.688	6,688	7,288
AZ-NM	6,210	6,133	6,828	7,029	7,506	7,588	7,742	7,938	8.618	9.618	8,958
CA-SNV	4,074	4,171	3,960	4,508	5,156	5,209	5,059	4.876	5.320	5,789	5,812
WSCC—U.S.	24,856	26,092	27,938	28.736	29,895	30.060	30,075	30,575	32.204	32,707	33,674

GENERATING CAPABILITY BY FUEL
NUCLEAR (MW)

TABLE 8

REGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
ECAR	4,530	4,593	6,865	7,685	8,471	9,650	8,976	9,696	9,696	9,696	9,696
ERCOT	0	0	1,150	2,185	3,550	3,550	4,800	4,800	4,800	4,800	4,800
MAAC	9,247	7,591	10,472	10,472	11,539	11,539	11,539	13,474	13,474	13,474	13,474
MAIN	6,290	8,366	10,606	12,816	14,856	14,856	14,856	14,886	14,886	14,886	14,886
MAPP—U.S.	3,700	3,701	3,701	3,701	3,701	3,701	3,701	3,701	3,701	3,701	3,701
NPCC—U.S.	7,712	7,999	8,808	11,108	12,188	12,188	12,188	12,188	13,338	13,338	13,338
SERC	21,925	23,894	25,064	27,109	29,429	30,699	33,027	33,027	34,204	34,204	34,204
SPP	1,694	1,694	5,004	5,944	5,944	5,944	5,944	7,069	7,069	7,069	7,069
WSCC—U.S.	3,691	6,977	9,420	10,681	11,953	11,955	11,955	13,195	14,445	14,445	14,445
NERC—U.S.	58,789	64,815	81,090	91,701	101,631	104,082	106,986	112,036	115,613	115,613	115,613
MAPP—CANADA	0	0	0	0	0	0	0	0	0	0	0
NPCC—CANADA	7,090	8,387	10,200	10,981	11,762	12,643	13,524	13,524	13,524	14,405	15,286
WSCC—CANADA	0	0	0	0	0	0	0	0	0	0	0
NERC—CANADA	7,090	8,387	10,200	10,981	11,762	12,643	13,524	13,524	13,524	14,405	15,286

SUBREGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
CMNWLTH. ED.	4,778	6,874	7,994	10,204	11,294	11,294	11,294	11,294	11,294	11,294	11,294
EAST MISSOURI	0	0	1,120	1,120	1,120	1,120	1,120	1,150	1,150	1,150	1,150
SO. CENT. ILL.	0	0	0	0	950	950	950	950	950	950	950
WIUM	1,512	1,492	1,492	1,492	1,492	1,492	1,492	1,492	1,492	1,492	1,492
MAIN	6,290	8,366	10,606	12,816	14,856	14,856	14,856	14,886	14,886	14,886	14,886
NEW YORK	3,405	3,692	4,501	4,501	5,581	5,581	5,581	5,581	5,581	5,581	5,581
NEW ENGLAND	4,307	4,307	4,307	6,607	6,607	6,607	6,607	6,607	7,757	7,757	7,757
NPCC—U.S.	7,712	7,999	8,808	11,108	12,188	12,188	12,188	12,188	13,338	13,338	13,338
NEW BRUNSWICK	639	639	639	639	639	639	639	639	639	639	639
ONTARIO	5,764	7,061	8,874	9,655	10,436	11,317	12,198	12,198	12,198	13,079	13,960
QUÉBEC	687	687	687	687	687	687	687	687	687	687	687
NPCC—CANADA	7,090	8,387	10,200	10,981	11,762	12,643	13,524	13,524	13,524	14,405	15,286
FLORIDA	3,651	3,741	3,741	3,741	3,741	3,741	3,741	3,741	3,741	3,741	3,741
SOUTHERN	3,161	3,260	3,260	3,260	4,410	4,535	5,686	5,686	5,686	5,686	5,686
TVA	5,491	5,491	6,661	6,661	7,831	7,831	9,008	9,008	10,185	10,185	10,185
VACAR	9,622	11,402	11,402	13,447	13,447	14,592	14,592	14,592	14,592	14,592	14,592
SERC	21,925	23,894	25,064	27,109	29,429	30,699	33,027	33,027	34,204	34,204	34,204
GROUP A	1,694	1,694	3,923	4,863	4,863	4,863	4,863	5,988	5,988	5,988	5,988
GROUP B	0	0	0	0	0	0	0	0	0	0	0
GROUP C	0	0	1,081	1,081	1,081	1,081	1,081	1,081	1,081	1,081	1,081
SPP	1,694	1,694	5,004	5,944	5,944	5,944	5,944	7,069	7,069	7,069	7,069
NWPP—U.S.	1,080	2,180	2,180	2,180	2,180	2,180	2,180	3,420	4,670	4,670	4,670
RMPA	200	200	200	275	275	275	275	275	275	275	275
AZ-NM	0	0	993	1,838	2,756	2,756	2,756	2,756	2,756	2,756	2,756
CA-SNV	2,411	4,597	6,047	6,388	6,742	6,744	6,744	6,744	6,744	6,744	6,744
WSCC—U.S.	3,691	6,977	9,420	10,681	11,953	11,955	11,955	13,195	14,445	14,445	14,445

GENERATING CAPABILITY BY FUEL
HYDRO[b] (MW)

TABLE 8

REGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
ECAR	609	609	609	609	609	609	609	609	609	609	609
ERCOT	236	236	236	239	239	239	239	239	239	239	239
MAAC	956[b]	854	892	1,042	1,042	1,044	1,044	1.044	1,044	1,044	1,044
MAIN	572	574	574	574	574	581	581	581	581	581	581
MAPP—U.S.	3,020	3,015	2,973	2.780	2,779	2.815	2.821	2,821	2,710	2.712	2,711
NPCC—U.S.	5,312	5,330	5.352	5.367	5.362	5.389	5,425	5,447	5.796	5,806	5,808
SERC	10,181	10,297	10,695	10.798	10.798	10.809	10,876	10.876	10.876	10,946	10,946
SPP	2,361	2,464	2.597	2,597	2.597	2.597	2,597	2.597	2.597	2,597	2,597
WSCC—U.S.	45,499[b]	39,411	41,148	41,330	41,569	41,877	41.926	42,096	42.153	42,199	42,344
NERC—U.S.	68,746	62,770	65,076	65,336	65,569	65.960	66.118	66,310	66,605	66.733	66,879
MAPP—CANADA	4,178	4,178	4,178	4,430	4,430	4.430	4,430	4.430	4.430	4,430	5,150
NPCC—CANADA	25,100	27,593	29,168	29,216	29,257	29,289	29.322	29,337	29,352	29,678	30,167
WSCC—CANADA	9,141	10,491	10,941	10.941	10.941	10,941	10.941	10.941	10,941	10,941	10,941
NERC—CANADA	38,419	42,262	44,287	44.587	44,628	44.660	44.693	44.708	44,723	45,049	46,258

SUBREGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
CMNWLTH. ED.	0	0	0	0	0	0	0	0	0	0	0
EAST MISSOURI	331	331	331	331	331	331	331	331	331	331	331
SO. CENT. ILL.	2	2	2	2	2	2	2	2	2	2	2
WIUM	239	241	241	241	241	248	248	248	248	248	248
MAIN	572	574	574	574	574	581	581	581	581	581	581
NEW YORK	4,005	4,005	4,015	4.030	4.022	4.049	4.085	4.107	4.456	4,466	4,468
NEW ENGLAND[c]	1,307	1,325	1.337	1.337	1,340	1,340	1,340	1,340	1,340	1,340	1,340
NPCC—U.S.	5,312	5.330	5,352	5,367	5.362	5.389	5,425	5.447	5,796	5.806	5,808
NEW BRUNSWICK	846	846	846	846	846	846	846	846	846	846	846
ONTARIO	6,114	6,128	6,163	6,168	6,168	6,168	6.168	6,168	6,168	6,168	6,168
QUÉBEC	18,140	20,619	22,159	22,202	22,243	22,275	22,308	22,323	22,338	22,664	23,153
NPCC—CANADA	25.100	27,593	29,168	29,216	29.257	29,289	29.322	29,337	29,352	29,678	30,167
FLORIDA	36	36	44	47	47	47	47	47	47	47	47
SOUTHERN	3,378	3,443	3,683	3.783	3,783	3,783	3.850	3,850	3.850	3,920	3,920.
TVA	4,300	4,300	4,300	4,300	4.300	4.300	4,300	4.300	4.300	4,300	4,300
VACAR	2,467	2,518	2,668	2,668	2,668	2,679	2,679	2,679	2,679	2,679	2,679
SERC	10,181	10,297	10,695	10,798	10,798	10,809	10,876	10,876	10,876	10,946	10,946
GROUP A	69	69	69	69	69	69	69	69	69	69	69
GROUP B	2,276	2,379	2,512	2,512	2,512	2,512	2,512	2.512	2.512	2,512	2.512
GROUP C	16	16	16	16	16	16	16	16	16	16	16
SPP	2,361	2,464	2.597	2.597	2,597	2.597	2.597	2,597	2.597	2,597	2,597
NWPP—U.S.	33,224[b]	28,988	29,088	30.811	30,233	30.233	30.233	30,811	30,811	30,811	30,811
RMPA	2,171	2,199	2,263	2.345	2,386	2.412	2.412	2.429	2,429	2,429	2,429
AZ-NM	665	662	662	662	662	662	662	662	662	662	662
CA-SNV	9,538[b]	7,981	8.040	8.090	8.288	8.570	8,619	8,772	8,829	8,875	8,980
WSCC—U.S.	45,499	39,411	41,148	41,330	41,569	41,877	41.926	42,096	42,153	42,199	42,344

GENERATING CAPABILITY BY FUEL
PUMPED STORAGE (MW)

TABLE 8

REGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
ECAR	2,767	2,768	2,768	3.608	3,608	3,608	3.608	3.608	3,608	3,608	3,608
ERCOT	0	0	0	0	0	0	0	0	0	0	0
MAAC	1,280	1,280	1,280	1,280	1,280	1,280	1,280	1,280	1,280	1,280	1,280
MAIN	300	300	300	300	300	300	300	300	300	300	300
MAPP—U.S.	0	0	0	0	0	0	0	0	0	0	0
NPCC—U.S.	2,613	2,613	2,613	2.613	2,613	2,613	2,613	2,613	3,613	3.613	3,613
SERC	2,934	3,142	3,772	4,402	4,402	4,402	4,402	4,702	5,550	5,550	5,550
SPP	260	260	260	260	260	260	260	260	260	260	260
WSCC—U.S.	2,658	4,106	4,118	4.152	4,148	4,177	4,156	4.191	4.192	4,183	4,183
NERC—U.S.	12,812	14,469	15,111	16,615	16,611	16,640	16,619	16,954	18,803	18,794	18,794
MAPP—CANADA	0	0	0	0	0	0	0	0	0	0	0
NPCC—CANADA	0	0	0	0	0	0	0	0	0	0	0
WSCC—CANADA	0	0	0	0	0	0	0	0	0	0	0
NERC—CANADA	0	0	0	0	0	0	0	0	0	0	0

SUBREGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
CMNWLTH. ED.	0	0	0	0	0	0	0	0	0	0	0
EAST MISSOURI	300	300	300	300	300	300	300	300	300	300	300
SO. CENT. ILL.	0	0	0	0	0	0	0	0	0	0	0
WIUM	0	0	0	0	0	0	0	0	0	0	0
MAIN	300	300	300	300	300	300	300	300	300	300	300
NEW YORK	1,000	1,000	1,000	1.000	1,000	1,000	1,000	1,000	2,000	2,000	2,000
NEW ENGLAND	1,613	1,613	1,613	1,613	1,613	1,613	1,613	1,613	1,613	1,613	1,613
NPCC—U.S.	2,613	2,613	2,613	2,613	2,613	2.613	2,613	2.613	3.613	3,613	3,613
NEW BRUNSWICK	0	0	0	0	0	0	0	0	0	0	0
ONTARIO	0	0	0	0	0	0	0	0	0	0	0
QUÉBEC	0	0	0	0	0	0	0	0	0	0	0
NPCC—CANADA	0	0	0	0	0	0	0	0	0	0	0
FLORIDA	0	0	0	0	0	0	0	0	0	0	0
SOUTHERN	512	488	488	488	488	488	488	638	1,486	1,486	1,486
TVA	1,300	1,532	1.532	1,532	1,532	1,532	1,532	1,532	1,532	1,532	1,532
VACAR	1,122	1,122	1,752	2,382	2,382	2,382	2,382	2,532	2,532	2,532	2,532
SERC	2,934	3,142	3,772	4.402	4,402	4,402	4.402	4.702	5,550	5.550	5,550
GROUP A	0	0	0	0	0	0	0	0	0	0	0
GROUP B	260	260	260	260	260	260	260	260	260	260	260
GROUP C	0	0	0	0	0	0	0	0	0	0	0
SPP	260	260	260	260	260	260	260	260	260	260	260
NWPP—U.S.	0	0	0	0	0	0	0	0	0	0	0
RMPA	190	362	374	362	362	362	362	362	362	362	362
AZ-NM	137	137	137	137	137	137	137	137	137	137	137
CA-SNV	2,433	3,607	3,607	3,653	3,649	3,678	3,657	3,692	3,693	3.684	3,684
WSCC—U.S.	2,658	4,106	4,118	4.152	4,148	4,177	4,156	4,191	4.192	4,183	4,183

CONTINUED

GENERATING CAPABILITY BY FUEL
GEOTHERMAL (MW)

TABLE 8

REGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
ECAR	0	0	0	0	0	0	0	0	0	0	0
ERCOT	0	0	0	0	0	0	0	0	0	0	0
MAAC	0	0	0	0	0	0	0	0	0	0	0
MAIN	0	0	0	0	0	0	0	0	0	0	0
MAPP—U.S.	0	0	0	0	0	0	0	0	0	0	0
NPCC—U.S.	0	0	0	0	0	0	0	0	0	0	0
SERC	0	0	0	0	0	0	0	0	0	0	0
SPP	0	0	0	0	0	0	0	0	0	0	0
WSCC—U.S.	1,247	1,426	1,495	1,942	2,001	2,212	2,346	2,605	2,864	2,884	2,884
NERC—U.S.	1,247	1,426	1,495	1,942	2,001	2,212	2,346	2,605	2,864	2,884	2,884
MAPP—CANADA	0	0	0	0	0	0	0	0	0	0	0
NPCC—CANADA	0	0	0	0	0	0	0	0	0	0	0
WSCC—CANADA	0	0	0	0	0	0	0	0	0	0	0
NERC—CANADA	0	0	0	0	0	0	0	0	0	0	0

SUBREGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
CMNWLTH. ED.	0	0	0	0	0	0	0	0	0	0	0
EAST MISSOURI	0	0	0	0	0	0	0	0	0	0	0
SO. CENT. ILL.	0	0	0	0	0	0	0	0	0	0	0
WIUM	0	0	0	0	0	0	0	0	0	0	0
MAIN	0	0	0	0	0	0	0	0	0	0	0
NEW YORK	0	0	0	0	0	0	0	0	0	0	0
NEW ENGLAND	0	0	0	0	0	0	0	0	0	0	0
NPCC—U.S.	0	0	0	0	0	0	0	0	0	0	0
NEW BRUNSWICK	0	0	0	0	0	0	0	0	0	0	0
ONTARIO	0	0	0	0	0	0	0	0	0	0	0
QUÉBEC	0	0	0	0	0	0	0	0	0	0	0
NPCC—CANADA	0	0	0	0	0	0	0	0	0	0	0
FLORIDA	0	0	0	0	0	0	0	0	0	0	0
SOUTHERN	0	0	0	0	0	0	0	0	0	0	0
TVA	0	0	0	0	0	0	0	0	0	0	0
VACAR	0	0	0	0	0	0	0	0	0	0	0
SERC	0	0	0	0	0	0	0	0	0	0	0
GROUP A	0	0	0	0	0	0	0	0	0	0	0
GROUP B	0	0	0	0	0	0	0	0	0	0	0
GROUP C	0	0	0	0	0	0	0	0	0	0	0
SPP	0	0	0	0	0	0	0	0	0	0	0
NWPP—U.S.	0	20	20	20	20	20	20	20	20	20	20
RMPA	0	0	0	0	0	0	0	0	0	0	0
AZ-NM	0	0	0	0	0	5	5	5	5	5	5
CA-SNV	1,247	1,406	1,475	1,922	1,981	2,187	2,321	2,580	2,839	2,859	2,859
WSCC—U.S.	1,247	1,426	1,495	1,942	2,001	2,212	2,346	2,605	2,864	2,884	2,884

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CONTINUED

GENERATING CAPABILITY BY FUEL
OIL—STEAM (MW)

TABLE 8

REGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
ECAR	3,640	2,269	2,882	2,203	2,203	3,071	3,071	2,612	2,818	3,431	3,431
ERCOT	0	0	0	0	0	0	0	0	0	0	0
MAAC	7,174	7,120	7,120	7,120	7,062	7,062	7,050	7,050	7,050	6,982	6,982
MAIN	3,328	3,318	3,318	3,318	3,318	3,318	3,318	3,318	3,318	3,318	3,318
MAPP—U.S.	359	75	95	95	95	94	94	94	94	94	94
NPCC—U.S.	16,400	16,341	16,191	15,941	14,752	13,448	12,822	12,761	12,761	12,518	12,416
SERC	10,337	9,098	8,778	8,567	8,567	8,567	8,567	8,567	8,542	8,502	8,476
SPP	50	50	50	50	50	50	50	50	50	50	50
WSCC—U.S.	511	511	511	511	511	511	511	511	511	511	511
NERC—U.S.	41,799	38,782	38,945	37,805	36,558	36,121	35,483	34,963	35,144	35,406	35,278
MAPP—CANADA	0	0	0	0	0	0	0	0	0	0	0
NPCC—CANADA	4,228	4,228	4,228	4,228	4,228	4,228	4,228	4,228	4,228	4,228	4,228
WSCC—CANADA	0	0	0	0	0	0	0	0	0	0	0
NERC—CANADA	4,228	4,228	4,228	4,228	4,228	4,228	4,228	4,228	4,228	4,228	4,228

SUBREGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
CMNWLTH. ED.	2,698	2,698	2,698	2,698	2,698	2,698	2,698	2,698	2,698	2,698	2,698
EAST MISSOURI	196	196	196	196	196	196	196	196	196	196	196
SO. CENT. ILL.	434	424	424	424	424	424	424	424	424	424	424
WIUM	0	0	0	0	0	0	0	0	0	0	0
MAIN	3,328	3,318	3,318	3,318	3,318	3,318	3,318	3,318	3,318	3,318	3,318
NEW YORK	8,422	8,486	8,486	8,486	7,297	6,471	6,252	6,191	6,191	6,191	6,191
NEW ENGLAND	7,978	7,855	7,705	7,455	7,455	6,977	6,570	6,570	6,570	6,327	6,225
NPCC—U.S.	16,400	16,341	16,191	15,941	14,752	13,448	12,822	12,761	12,761	12,518	12,416
NEW BRUNSWICK	1,366	1,366	1,366	1,366	1,366	1,366	1,366	1,366	1,366	1,366	1,366
ONTARIO	2,232	2,232	2,232	2,232	2,232	2,232	2,232	2,232	2,232	2,232	2,232
QUÉBEC	630	630	630	630	630	630	630	630	630	630	630
NPCC—CANADA	4,228	4,228	4,228	4,228	4,228	4,228	4,228	4,228	4,228	4,228	4,228
FLORIDA	7,870	7,477	7,327	7,116	7,116	7,116	7,116	7,116	7,116	7,116	7,116
SOUTHERN	228	228	228	223	228	228	228	228	203	163	137
TVA	0	0	0	0	0	0	0	0	0	0	0
VACAR	2,239	1,393	1,223	1,223	1,223	1,223	1,223	1,223	1,223	1,223	1,223
SERC	10,337	9,098	8,778	8,567	8,567	8,567	8,567	8,567	8,542	8,502	8,476
GROUP A	0	0	0	0	0	0	0	0	0	0	0
GROUP B	50	50	50	50	50	50	50	50	50	50	50
GROUP C	0	0	0	0	0	0	0	0	0	0	0
SPP	50	50	50	50	50	50	50	50	50	50	50
NWPP—U.S.	136	136	136	136	136	136	136	136	136	136	136
RMPA	0	0	0	0	0	0	0	0	0	0	0
AZ-NM	0	0	0	0	0	0	0	0	0	0	0
CA-SNV	375	375	375	375	375	375	375	375	375	375	375
WSCC—U.S.	511	511	511	511	511	511	511	511	511	511	511

GENERATING CAPABILITY BY FUEL
OIL—COMBUSTION TURBINE[d] (MW)

TABLE 8

REGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
ECAR	1,972	1,969	1,969	1,969	1,969	1.969	1.966	1,966	1.870	1,950	2,273
ERCOT	46	46	40	40	40	40	40	40	40	40	40
MAAC	5,004	4,922	4,464	4.461	4,458	4.458	4.455	4.454	4.454	4,454	4,460
MAIN	1,226	1,226	1,226	1,226	1,226	1,226	1.226	1,250	1,250	1,250	1,250
MAPP—U.S.	2,713	2,270	2.269	2,270	2.274	2,238	2.223	2.269	2.270	2,270	2,270
NPCC—U.S.	2,743	2,651	2,594	2.594	2,591	2.591	2.591	2,591	2,656	2,656	2,656
SERC	6,937	6,917	6.883	6.868	6,867	6.792	6.792	6,792	6.729	7,003	7,033
SPP	1,508	1,508	1.506	1.506	1,506	1,522	1,522	1,522	1,522	1,522	1,522
WSCC—U.S.	914	925	925	925	925	925	925	925	925	925	925
NERC—U.S.	23,063	22,434	21,876	21,859	21,856	21,761	21,740	21.809	21,716	22,070	22,429
MAPP—CANADA	22	22	22	22	22	22	22	22	22	22	22
NPCC—CANADA	909	786	768	768	768	768	768	768	768	768	768
WSCC—CANADA	179	179	179	179	179	179	176	176	176	176	176
NERC—CANADA	1,110	987	969	969	969	969	966	966	966	966	966

SUBREGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
CMNWLTH. ED.	438	438	438	438	438	438	438	438	438	438	438
EAST MISSOURI	349	349	349	349	349	349	349	349	349	349	349
SO. CENT. ILL.	93	93	93	93	93	93	93	117	117	117	117
WIUM	346	346	346	346	346	346	346	346	346	346	346
MAIN	1,226	1,226	1,226	1.226	1,226	1,226	1,226	1,250	1.250	1,250	1.250
NEW YORK	1,753	1,753	1,753	1,753	1,753	1,753	1,753	1,753	1,753	1,753	1,753
NEW ENGLAND	990	898	841	841	838	838	838	838	903	903	903
NPCC—U.S.	2,743	2,651	2,594	2.594	2,591	2,591	2.591	2,591	2,656	2,656	2,656
NEW BRUNSWICK	26	26	26	26	26	26	26	26	26	26	26
ONTARIO	448	325	307	307	307	307	307	307	307	307	307
QUÉBEC	435	435	435	435	435	435	435	435	435	435	435
NPCC—CANADA	909	786	768	768	768	768	768	768	768	768	768
FLORIDA	2,409	2,389	2,389	2.389	2,388	2.388	2.388	2,388	2,388	2,694	2,694
SOUTHERN	1,214	1,214	1,180	1.165	1,165	1,090	1,090	1,090	1.027	995	1,025
TVA	2,066	2,066	2.066	2.066	2.066	2,066	2,066	2,066	2,066	2,066	2,066
VACAR	1,248	1,248	1,248	1,248	1,248	1,248	1,248	1,248	1,248	1,248	1,248
SERC	6,937	6,917	6.883	6,868	6,867	6,792	6,792	6,792	6,729	7.003	7,033
GROUP A	281	281	281	281	281	281	281	281	281	281	281
GROUP B	67	67	65	65	65	61	61	61	61	61	61
GROUP C	1,160	1.160	1,160	1,160	1,160	1,180	1,180	1,180	1,180	1.180	1,180
SPP	1,508	1,508	1,506	1.506	1,506	1,522	1.522	1,522	1,522	1,522	1,522
NWPP—U.S.	226	227	227	227	227	227	227	227	227	227	227
RMPA	0	0	0	0	0	0	0	0	0	0	0
AZ-NM	134	134	134	134	134	134	134	134	134	134	134
CA-SNV	554	564	564	564	564	564	564	564	564	564	564
WSCC—U.S.	914	925	925	925	925	925	925	925	925	925	925

CONTINUED

GENERATING CAPABILITY BY FUEL
OIL—COMBINED CYCLE (MW)

TABLE 8

REGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
ECAR	226	226	226	226	226	226	226	226	226	226	226
ERCOT	0	0	0	0	0	0	0	0	0	0	0
MAAC	114	114	114	114	114	114	114	114	114	114	114
MAIN	0	0	0	0	0	0	0	0	0	0	0
MAPP—U.S.	173	109	109	109	109	109	109	109	109	109	109
NPCC—U.S.	382	363	363	363	363	363	363	363	363	363	363
SERC	0	0	0	0	0	0	0	0	0	0	0
SPP	0	0	0	0	0	0	0	0	0	0	0
WSCC—U.S.	0	0	0	0	0	0	0	0	0	0	0
NERC—U.S.	895	812	812	812	812	812	812	812	812	812	812
MAPP—CANADA	0	0	0	0	0	0	0	0	0	0	0
NPCC—CANADA	0	0	0	0	0	0	0	0	0	0	0
WSCC—CANADA	0	0	0	0	0	0	0	0	0	0	0
NERC—CANADA	0	0	0	0	0	0	0	0	0	0	0

SUBREGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
CMNWLTH. ED.	0	0	0	0	0	0	0	0	0	0	0
EAST MISSOURI	0	0	0	0	0	0	0	0	0	0	0
SO. CENT. ILL.	0	0	0	0	0	0	0	0	0	0	0
WIUM	0	0	0	0	0	0	0	0	0	0	0
MAIN	0	0	0	0	0	0	0	0	0	0	0
NEW YORK	0	0	0	0	0	0	0	0	0	0	0
NEW ENGLAND	382	363	363	363	363	363	363	363	363	363	363
NPCC—U.S.	382	363	363	363	363	363	363	363	363	363	363
NEW BRUNSWICK	0	0	0	0	0	0	0	0	0	0	0
ONTARIO	0	0	0	0	0	0	0	0	0	0	0
QUÉBEC	0	0	0	0	0	0	0	0	0	0	0
NPCC—CANADA	0	0	0	0	0	0	0	0	0	0	0
FLORIDA	0	0	0	0	0	0	0	0	0	0	0
SOUTHERN	0	0	0	0	0	0	0	0	0	0	0
TVA	0	0	0	0	0	0	0	0	0	0	0
VACAR	0	0	0	0	0	0	0	0	0	0	0
SERC	0	0	0	0	0	0	0	0	0	0	0
GROUP A	0	0	0	0	0	0	0	0	0	0	0
GROUP B	0	0	0	0	0	0	0	0	0	0	0
GROUP C	0	0	0	0	0	0	0	0	0	0	0
SPP	0	0	0	0	0	0	0	0	0	0	0
NWPP—U.S.	0	0	0	0	0	0	0	0	0	0	0
RMPA	0	0	0	0	0	0	0	0	0	0	0
AZ-NM	0	0	0	0	0	0	0	0	0	0	0
CA-SNV	0	0	0	0	0	0	0	0	0	0	0
WSCC—U.S.	0	0	0	0	0	0	0	0	0	0	0

GENERATING CAPABILITY BY FUEL
GAS—STEAM (MW)

TABLE 8

REGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
ECAR	29	29	317	317	29	29	29	29	29	29	29
ERCOT	25,521	25,656	25,639	25.639	25,639	25.703	25.457	25,216	24.685	23.913	23,203
MAAC	0	0	0	0	0	0	0	0	0	0	0
MAIN	6	6	6	6	6	6	6	6	6	6	6
MAPP—U.S.	159	6	6	6	7	7	7	0	0	0	0
NPCC—U.S.	0	0	0	0	0	0	0	0	0	0	0
SERC	0	0	0	0	0	0	0	0	0	0	0
SPP	12,207	12,125	11,940	11.940	11,929	11,869	11.869	11.869	11,812	11,448	11,283
WSCC—U.S.	284	284	388	388	447	447	447	447	447	447	447
NERC—U.S.	38,206	38,106	38,296	38.296	38.057	38,061	37.815	37.567	36,979	35,843	34,968
MAPP—CANADA	96	0	0	0	0	0	0	0	0	0	0
NPCC—CANADA	588	588	588	588	588	588	588	588	588	588	588
WSCC—CANADA	966	966	966	966	966	966	966	966	888	888	888
NERC—CANADA	1,650	1,554	1.554	1,554	1,554	1.554	1.554	1,554	1,476	1,476	1,476

SUBREGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
CMNWLTH. ED.	0	0	0	0	0	0	0	0	0	0	0
EAST MISSOURI	0	0	0	0	0	0	0	0	0	0	0
SO. CENT. ILL.	0	0	0	0	0	0	0	0	0	0	0
WIUM	6	6	6	6	6	6	6	6	6	6	6
MAIN	6	6	6	6	6	6	6	6	6	6	6
NEW YORK	0	0	0	0	0	0	0	0	0	0	0
NEW ENGLAND	0	0	0	0	0	0	0	0	0	0	0
NPCC—U.S.	0	0	0	0	0	0	0	0	0	0	0
NEW BRUNSWICK	0	0	0	0	0	0	0	0	0	0	0
ONTARIO	588	588	588	588	588	588	588	588	588	588	588
QUÉBEC	0	0	0	0	0	0	0	0	0	0	0
NPCC—CANADA	588	588	588	588	588	588	588	588	588	588	588
FLORIDA	0	0	0	0	0	0	0	0	0	0	0
SOUTHERN	0	0	0	0	0	0	0	0	0	0	0
TVA	0	0	0	0	0	0	0	0	0	0	0
VACAR	0	0	0	0	0	0	0	0	0	0	0
SERC	0	0	0	0	0	0	0	0	0	0	0
GROUP A	4,756	4,629	4.511	4,511	4,500	4.476	4.476	4,476	4.419	4,364	4,364
GROUP B	7,391	7,436	7.369	7,369	7,369	7,333	7.333	7.333	7,333	7,024	6,859
GROUP C	60	60	60	60	60	60	60	60	60	60	60
SPP	12,207	12,125	11,940	11.940	11,929	11,869	11.869	11.869	11.812	11,448	11,283
NWPP—U.S.	0	0	0	0	0	0	0	0	0	0	0
RMPA	0	0	0	0	0	0	0	0	0	0	0
AZ-NM	0	0	0	0	0	0	0	0	0	0	0
CA-SNV	284	284	388	388	447	447	447	447	447	447	447
WSCC—U.S.	284	284	388	388	447	447	447	447	447	447	447

GENERATING CAPABILITY BY FUEL
GAS—COMBUSTION TURBINE[d] (MW)

TABLE 8

REGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
ECAR	1,000	1,115	1,115	1,115	1,115	1,115	1,185	1,185	1,255	1,255	1,255
ERCOT	246	246	246	246	246	246	246	246	246	246	246
MAAC	198	198	198	198	198	198	198	198	198	198	198
MAIN	67	67	67	67	67	67	167	167	167	167	167
MAPP—U.S.	202	0	0	0	0	0	0	0	0	0	0
NPCC—U.S.	48	48	48	48	48	48	48	48	48	48	48
SERC	30	30	30	30	30	30	30	30	30	30	30
SPP	515	515	515	515	515	515	515	575	575	516	516
WSCC—U.S.	143	143	143	143	143	143	143	143	143	143	143
NERC—U.S.	2,449	2,362	2,362	2,362	2,362	2,362	2,532	2,592	2,662	2,603	2,603
MAPP—CANADA	115	115	115	115	115	115	115	115	115	115	115
NPCC—CANADA	0	0	0	0	0	0	0	0	0	0	0
WSCC—CANADA	100	100	100	100	100	100	100	100	100	100	100
NERC—CANADA	215	215	215	215	215	215	215	215	215	215	215

SUBREGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
CMNWLTH. ED.	0	0	0	0	0	0	0	0	0	0	0
EAST MISSOURI	37	37	37	37	37	37	37	37	37	37	37
SO. CENT. ILL.	30	30	30	30	30	30	130	130	130	130	130
WIUM	0	0	0	0	0	0	0	0	0	0	0
MAIN	67	67	67	67	67	67	167	167	167	167	167
NEW YORK	45	45	45	45	45	45	45	45	45	45	45
NEW ENGLAND	3	3	3	3	3	3	3	3	3	3	3
NPCC—U.S.	48	48	48	48	48	48	48	48	48	48	48
NEW BRUNSWICK	0	0	0	0	0	0	0	0	0	0	0
ONTARIO	0	0	0	0	0	0	0	0	0	0	0
QUÉBEC	0	0	0	0	0	0	0	0	0	0	0
NPCC—CANADA	0	0	0	0	0	0	0	0	0	0	0
FLORIDA	0	0	0	0	0	0	0	0	0	0	0
SOUTHERN	21	21	21	21	21	21	21	21	21	21	21
TVA	0	0	0	0	0	0	0	0	0	0	0
VACAR	9	9	9	9	9	9	9	9	9	9	9
SERC	30	30	30	30	30	30	30	30	30	30	30
GROUP A	10	10	10	10	10	10	10	10	10	10	10
GROUP B	403	403	403	403	403	403	403	403	403	344	344
GROUP C	102	102	102	102	102	102	102	162	162	162	162
SPP	515	515	515	515	515	515	515	575	575	516	516
NWPP—U.S.	15	15	15	15	15	15	15	15	15	15	15
RMPA	0	0	0	0	0	0	0	0	0	0	0
AZ-NM	0	0	0	0	0	0	0	0	0	0	0
CA-SNV	128	128	128	128	128	128	128	128	128	128	128
WSCC—U.S.	143	143	143	143	143	143	143	143	143	143	143

CONTINUED

GENERATING CAPABILITY BY FUEL
GAS—COMBINED CYCLE (MW)

TABLE 8

REGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
ECAR	0	0	0	0	0	0	0	0	0	0	0
ERCOT	28	28	28	28	28	28	28	28	28	28	28
MAAC	0	0	0	0	0	0	0	0	0	0	0
MAIN	0	0	0	0	0	0	0	300	300	300	300
MAPP—U.S.	0	0	0	0	0	0	0	0	0	0	0
NPCC—U.S.	0	0	0	0	0	0	0	0	0	0	0
SERC	0	0	0	0	0	0	0	0	0	0	0
SPP	459	459	459	459	459	459	459	459	459	459	459
WSCC—U.S.	0	0	0	0	0	0	0	0	0	0	0
NERC—U.S.	487	487	487	487	487	487	487	787	787	787	787
MAPP—CANADA	0	0	0	0	0	0	0	0	0	0	0
NPCC—CANADA	0	0	0	0	0	0	0	0	0	0	0
WSCC—CANADA	0	0	0	0	0	0	0	0	0	0	0
NERC—CANADA	0	0	0	0	0	0	0	0	0	0	0

SUBREGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
CMNWLTH. ED.	0	0	0	0	0	0	0	0	0	0	0
EAST MISSOURI	0	0	0	0	0	0	0	0	0	0	0
SO. CENT. ILL.	0	0	0	0	0	0	0	300	300	300	300
WIUM	0	0	0	0	0	0	0	0	0	0	0
MAIN	0	0	0	0	0	0	0	300	300	300	300
NEW YORK	0	0	0	0	0	0	0	0	0	0	0
NEW ENGLAND	0	0	0	0	0	0	0	0	0	0	0
NPCC—U.S.	0	0	0	0	0	0	0	0	0	0	0
NEW BRUNSWICK	0	0	0	0	0	0	0	0	0	0	0
ONTARIO	0	0	0	0	0	0	0	0	0	0	0
QUÉBEC	0	0	0	0	0	0	0	0	0	0	0
NPCC—CANADA	0	0	0	0	0	0	0	0	0	0	0
FLORIDA	0	0	0	0	0	0	0	0	0	0	0
SOUTHERN	0	0	0	0	0	0	0	0	0	0	0
TVA	0	0	0	0	0	0	0	0	0	0	0
VACAR	0	0	0	0	0	0	0	0	0	0	0
SERC	0	0	0	0	0	0	0	0	0	0	0
GROUP A	0	0	0	0	0	0	0	0	0	0	0
GROUP B	459	459	459	459	459	459	459	459	459	459	459
GROUP C	0	0	0	0	0	0	0	0	0	0	0
SPP	459	459	459	459	459	459	459	459	459	459	459
NWPP—U.S.	0	0	0	0	0	0	0	0	0	0	0
RMPA	0	0	0	0	0	0	0	0	0	0	0
AZ-NM	0	0	0	0	0	0	0	0	0	0	0
CA-SNV	0	0	0	0	0	0	0	0	0	0	0
WSCC—U.S.	0	0	0	0	0	0	0	0	0	0	0

GENERATING CAPABILITY BY FUEL
DUAL-FUELED[*] (OIL/GAS)—STEAM (MW)

TABLE 8

REGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
ECAR	0	0	0	0	0	0	0	0	0	0	0
ERCOT	5,412	5,417	5,417	5,417	5,417	5,417	5,417	5,417	5,417	5,417	5,417
MAAC[†]	7,920	8,535	8,369	8,033	8,033	8,033	8,423	8,423	8,222	8,222	8,222
MAIN	677	482	492	492	492	492	492	450	450	450	450
MAPP—U.S.	0	337	307	307	311	258	258	256	256	251	251
NPCC—U.S.	7,494	7,494	7,494	7,095	7,095	7,066	7,006	7,006	7,006	7,006	7,006
SERC	8,160	8,078	8,078	8,012	7,951	7,951	7,951	7,848	7,718	7,718	7,718
SPP	17,325	17,282	16,896	16,634	16,275	16,275	15,905	15,538	15,413	15,383	15,270
WSCC—U.S.	24,658	24,272	23,503	23,250	22,559	22,300	22,120	21,966	21,727	21,334	21,102
NERC—U.S.	71,646	71,897	70,556	69,240	68,133	67,792	67,572	66,904	66,209	65,781	65,436
MAPP—CANADA	0	96	96	96	96	96	96	96	96	96	96
NPCC—CANADA	0	0	0	0	0	0	0	0	0	0	0
WSCC—CANADA	900	900	900	900	900	900	900	900	900	900	900
NERC—CANADA	900	996	996	996	996	996	996	996	996	996	996

SUBREGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
CMNWLTH. ED.	0	0	0	0	0	0	0	0	0	0	0
EAST MISSOURI	265	265	265	265	265	265	265	265	265	265	265
SO. CENT. ILL.	150	147	147	147	147	147	147	147	147	147	147
WIUM	262	70	80	80	80	80	80	38	38	38	38
MAIN	677	482	492	492	492	492	492	450	450	450	450
NEW YORK	6,011	6,011	6,011	5,612	5,612	5,583	5,523	5,523	5,523	5,523	5,523
NEW ENGLAND	1,483	1,483	1,483	1,483	1,483	1,483	1,483	1,483	1,483	1,483	1,483
NPCC—U.S.	7,494	7,494	7,494	7,095	7,095	7,066	7,006	7,006	7,006	7,006	7,006
NEW BRUNSWICK	0	0	0	0	0	0	0	0	0	0	0
ONTARIO	0	0	0	0	0	0	0	0	0	0	0
QUÉBEC	0	0	0	0	0	0	0	0	0	0	0
NPCC—CANADA	0	0	0	0	0	0	0	0	0	0	0
FLORIDA	6,176	6,094	6,094	6,083	6,083	6,083	6,083	6,061	6,061	6,061	6,061
SOUTHERN	1,072	1,072	1,072	1,017	956	956	956	875	745	745	745
TVA	0	0	0	0	0	0	0	0	0	0	0
VACAR	912	912	912	912	912	912	912	912	912	912	912
SERC	8,160	8,078	8,078	8,012	7,951	7,951	7,951	7,848	7,718	7,718	7,718
GROUP A	13,094	13,094	12,758	12,516	12,153	12,153	11,783	11,451	11,326	11,326	11,213
GROUP B	2,025	1,978	1,928	1,928	1,928	1,928	1,928	1,928	1,928	1,928	1,928
GROUP C	2,206	2,210	2,210	2,190	2,194	2,194	2,194	2,159	2,159	2,129	2,129
SPP	17,325	17,282	16,896	16,634	16,275	16,275	15,905	15,538	15,413	15,383	15,270
NWPP—U.S.	602	645	645	645	645	645	645	645	645	645	645
RMPA	354	354	337	337	337	337	337	329	312	312	312
AZ-NM	2,757	2,711	2,624	2,525	2,448	2,366	2,366	2,366	2,474	2,474	2,474
CA-SNV	20,945	20,562	19,897	19,743	19,129	18,952	18,772	18,626	18,296	17,903	17,671
WSCC—U.S.	24,658	24,272	23,503	23,250	22,559	22,300	22,120	21,966	21,727	21,334	21,102

GENERATING CAPABILITY BY FUEL
DUAL-FUELED[e] (OIL/GAS)—COMBUSTION TURBINE[d] (MW)

TABLE 8

REGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
ECAR	0	0	0	0	0	0	0	0	0	0	0
ERCOT	722	722	722	722	722	722	722	722	722	722	722
MAAC[g]	2,282	2,282	2,282	2,282	2,282	2,282	2,282	2,282	2,282	2,282	2,282
MAIN	1,274	1,274	1,274	1,274	1,274	1,274	1,274	1,274	1,274	1,274	1,274
MAPP—U.S.	0	558	557	555	558	483	483	513	513	513	513
NPCC—U.S.	2,111	2,120	2,120	2,120	2,120	2,120	2,120	2,120	2,120	2,120	2,120
SERC	3,265	3,227	3,227	3,227	3,214	3,214	3,214	3,214	3,214	3,324	3,324
SPP	717	708	708	752	752	752	1,052	1,252	1,452	1,452	1,752
WSCC—U.S.	4,003	4,144	4,154	4,210	4,210	4,210	4,210	4,211	4,211	4,311	4,311
NERC—U.S.	14,374	15,035	15,044	15,142	15,132	15,057	15,357	15,588	15,788	15,998	16,298
MAPP—CANADA	0	0	0	0	0	0	0	0	0	0	0
NPCC—CANADA	0	0	0	0	0	0	0	0	0	0	0
WSCC—CANADA	303	303	303	303	303	303	303	257	228	228	228
NERC—CANADA	303	303	303	303	303	303	303	257	228	228	228

SUBREGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
CMNWLTH. ED.	602	602	602	602	602	602	602	602	602	602	602
EAST MISSOURI	13	13	13	13	13	13	13	13	13	13	13
SO. CENT. ILL.	163	163	163	163	163	163	163	163	163	163	163
WIUM	496	496	496	496	496	496	496	496	496	496	496
MAIN	1,274	1,274	1,274	1,274	1,274	1,274	1,274	1,274	1,274	1,274	1,274
NEW YORK	1,734	1,734	1,734	1,734	1,734	1,734	1,734	1,734	1,734	1,734	1,734
NEW ENGLAND	377	386	386	386	386	386	386	386	386	386	386
NPCC—U.S.	2,111	2,120	2,120	2,120	2,120	2,120	2,120	2,120	2,120	2,120	2,120
NEW BRUNSWICK	0	0	0	0	0	0	0	0	0	0	0
ONTARIO	0	0	0	0	0	0	0	0	0	0	0
QUÉBEC	0	0	0	0	0	0	0	0	0	0	0
NPCC—CANADA	0	0	0	0	0	0	0	0	0	0	0
FLORIDA	2,030	1,992	1,992	1,992	1,979	1,979	1,979	1,979	1,979	2,089	2,089
SOUTHERN	0	0	0	0	0	0	0	0	0	0	0
TVA	0	0	0	0	0	0	0	0	0	0	0
VACAR	1,235	1,235	1,235	1,235	1,235	1,235	1,235	1,235	1,235	1,235	1,235
SERC	3,265	3,227	3,227	3,227	3,214	3,214	3,214	3,214	3,214	3,324	3,324
GROUP A	124	124	124	124	124	124	124	124	124	124	124
GROUP B	0	0	0	0	0	0	300	500	700	700	1,000
GROUP C	593	584	584	628	628	628	628	628	628	628	628
SPP	717	708	708	752	752	752	1,052	1,252	1,452	1,452	1,752
NWPP—U.S.	623	799	799	799	797	797	797	799	799	799	799
RMPA	587	587	587	587	587	587	587	587	587	587	587
AZ-NM	1,351	1,349	1,349	1,349	1,349	1,349	1,349	1,349	1,349	1,449	1,449
CA-SNV	1,443	1,411	1,421	1,477	1,477	1,477	1,477	1,478	1,478	1,478	1,478
WSCC—U.S.	4,003	4,144	4,154	4,210	4,210	4,210	4,210	4,211	4,211	4,311	4,311

GENERATING CAPABILITY BY FUEL

DUAL-FUELED* (OIL/GAS)—COMBINED CYCLE (MW)

TABLE 8

REGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
ECAR	0	0	0	0	0	0	0	0	0	0	0
ERCOT	498	498	498	498	498	498	498	498	498	498	498
MAAC	218	218	218	218	218	218	218	218	218	218	218
MAIN	0	0	0	0	0	0	0	0	0	0	0
MAPP—U.S.	0	61	61	61	61	61	61	61	61	61	61
NPCC—U.S.	99	93	93	93	93	93	93	93	93	93	93
SERC	600	600	600	600	600	600	600	600	600	600	600
SPP	535	534	534	534	534	534	534	534	534	534	534
WSCC—U.S.	2,453	2,484	2,484	2,484	2,484	2,484	2,484	2,484	2,484	2,484	2,484
NERC—U.S.	4,403	4,488	4,488	4,488	4,488	4,488	4,488	4,488	4,488	4,488	4,488
MAPP—CANADA	0	0	0	0	0	0	0	0	0	0	0
NPCC—CANADA	0	0	0	0	0	0	0	0	0	0	0
WSCC—CANADA	0	0	0	0	0	0	0	0	0	0	0
NERC—CANADA	0	0	0	0	0	0	0	0	0	0	0

SUBREGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
CMNWLTH. ED.	0	0	0	0	0	0	0	0	0	0	0
EAST MISSOURI	0	0	0	0	0	0	0	0	0	0	0
SO. CENT. ILL.	0	0	0	0	0	0	0	0	0	0	0
WIUM	0	0	0	0	0	0	0	0	0	0	0
MAIN	0	0	0	0	0	0	0	0	0	0	0
NEW YORK	0	0	0	0	0	0	0	0	0	0	0
NEW ENGLAND	99	93	93	93	93	93	93	93	93	93	93
NPCC—U.S.	99	93	93	93	93	93	93	93	93	93	93
NEW BRUNSWICK	0	0	0	0	0	0	0	0	0	0	0
ONTARIO	0	0	0	0	0	0	0	0	0	0	0
QUÉBEC	0	0	0	0	0	0	0	0	0	0	0
NPCC—CANADA	0	0	0	0	0	0	0	0	0	0	0
FLORIDA	510	510	510	510	510	510	510	510	510	510	510
SOUTHERN	62	62	62	62	62	62	62	62	62	62	62
TVA	0	0	0	0	0	0	0	0	0	0	0
VACAR	28	28	28	28	28	28	28	28	28	28	28
SERC	600	600	600	600	600	600	600	600	600	600	600
GROUP A	203	203	203	203	203	203	203	203	203	203	203
GROUP B	255	255	255	255	255	255	255	255	255	255	255
GROUP C	77	76	76	76	76	76	76	76	76	76	76
SPP	535	534	534	534	534	534	534	534	534	534	534
NWPP—U.S.	500	500	500	500	493	493	493	500	500	500	500
RMPA	0	0	0	0	0	0	0	0	0	0	0
AZ-NM	843	839	839	839	839	839	839	839	839	839	839
CA-SNV	1,110	1,152	1,152	1,152	1,152	1,152	1,152	1,152	1,152	1,152	1,152
WSCC—U.S.	2,453	2,484	2,484	2,484	2,484	2,484	2,484	2,484	2,484	2,484	2,484

CONTINUED

GENERATING CAPABILITY BY FUEL
OTHER (MW)

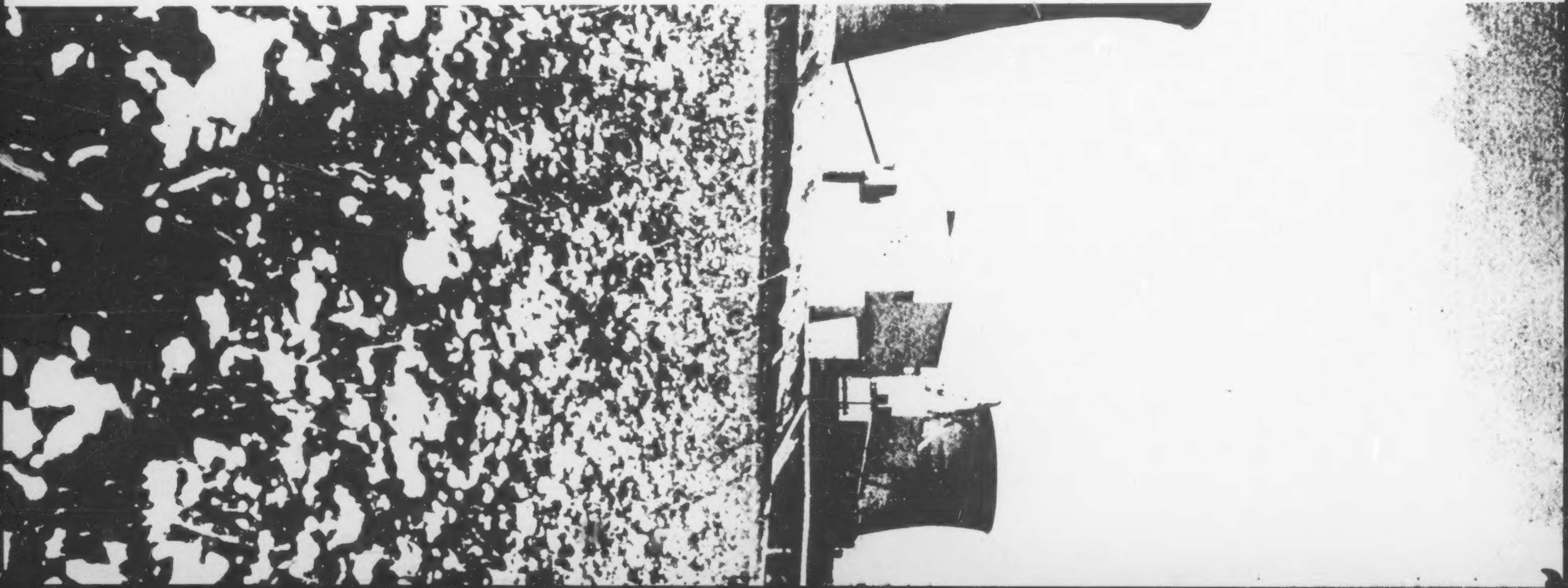
TABLE 8

REGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
ECAR	0	0	0	0	0	0	0	0	0	0	0
ERCOT[h]	0	926	1,243	1,328	1.500	1.580	1,796	1.837	2.392	3.932	4,862
MAAC[i]	232	220	267	267	173	173	173	173	173	173	173
MAIN[j]	0	0	0	0	0	0	0	0	10	10	10
MAPP—U.S.[k]	14	14	14	14	14	14	14	14	14	14	14
NPCC—U.S.[l]	17	117	149	153	153	153	178	218	218	218	218
SERC[m]	273	305	362	390	475	490	555	570	575	575	580
SPP	62	62	62	62	224	224	224	224	597	848	1,038
WSCC—U.S.	534	830	1,133	1,659	1,883	1.963	2,209	2.593	2.907	3,415	3,628
NERC—U.S.	1,132	2,474	3,230	3,873	4,422	4,597	5.149	5.629	6.886	9,185	10,523
MAPP—CANADA	0	0	0	0	0	0	0	0	0	0	0
NPCC—CANADA	0	0	0	0	0	35	52	70	87	105	105
WSCC—CANADA	0	0	0	0	0	0	0	0	0	0	0
NERC—CANADA	0	0	0	0	0	35	52	70	87	105	105

SUBREGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
CMNWLTH. ED.	0	0	0	0	0	0	0	0	0	0	0
EAST MISSOURI	0	0	0	0	0	0	0	0	0	0	0
SO. CENT. ILL.	0	0	0	0	0	0	0	0	0	0	0
WIUM[j]	0	0	0	0	0	0	0	0	10	10	10
MAIN	0	0	0	0	0	0	0	0	10	10	10
NEW YORK[l]	0	50	82	82	82	82	107	147	147	147	147
NEW ENGLAND[l]	17	67	67	71	71	71	71	71	71	71	71
NPCC—U.S.	17	117	149	153	153	153	178	218	218	218	218
NEW BRUNSWICK	0	0	0	0	0	0	0	0	0	0	0
ONTARIO	0	0	0	0	0	35	52	70	87	105	105
QUÉBEC	0	0	0	0	0	0	0	0	0	0	0
NPCC—CANADA	0	0	0	0	0	35	52	70	87	105	105
FLORIDA	107	107	107	107	107	107	107	107	107	107	107
SOUTHERN	0	0	0	0	0	0	0	0	0	0	0
TVA	0	0	0	0	0	0	0	0	0	0	0
VACAR[m]	166	198	255	283	368	383	448	463	468	468	473
SERC	273	305	362	390	475	490	555	570	575	575	580
GROUP A	13	13	13	13	0	0	0	0	0	0	0
GROUP B	49	49	49	49	224	224	224	224	597	848	1,038
GROUP C	0	0	0	0	0	0	0	0	0	0	0
SPP	62	62	62	62	224	224	224	224	597	848	1,038
NWPP—U.S.	48	110	145	179	207	219	229	239	249	309	319
RMPA	7	12	31	42	72	72	73	73	73	73	80
AZ-NM	0	0	0	0	0	0	0	0	0	0	0
CA-SNV	468	708	957	1,438	1,602	1,672	1.907	2.281	2.585	3.033	3,229
WSCC—U.S.	534	830	1.133	1,659	1,883	1,963	2,209	2,593	2.907	3,415	3,628

FOOTNOTES TO TABLE 8

a/ Since the subregional peak demands may occur in different months than the coincident total WSCC (U.S.) peak demand, the sum of the individual subregional installed capabilities based on those peak demands may not equal the WSCC (U.S.) total.
b/ Adverse hydro conditions are routinely assumed for forecast years by most systems. Data for actual year can be greater than for forecast years if median hydro occurred.
c/ Median hydro data is reported by New England.
d/ Includes diesel.
e/ This category is considered to include only those units which can just as easily burn either oil or gas, without limitation, and in which the choice of fuel is determined solely on the relative economics or availability of fuel.
f/ Coal/oil, coal/natural gas, oil/natural gas. Several of these facilities, however, would require the issuance of various permits and would incur some delay before conversion from one fuel to the other.
g/ Oil/natural gas, kerosene/natural gas. Several of these facilities, however, would require the issuance of various permits and would incur some delay before conversion from one fuel to the other.
h/ Includes cogeneration, refuse, conservation, load management, and other supply options.
i/ Includes #6 fuel oil, cogeneration, refinery gas, petroleum coke and oil.
j/ Wood.
k/ Wood-burning steam units.
l/ Refuse and wood.
m/ Includes 105 MW firm purchase by SCPSA.



Generating Capability by Region

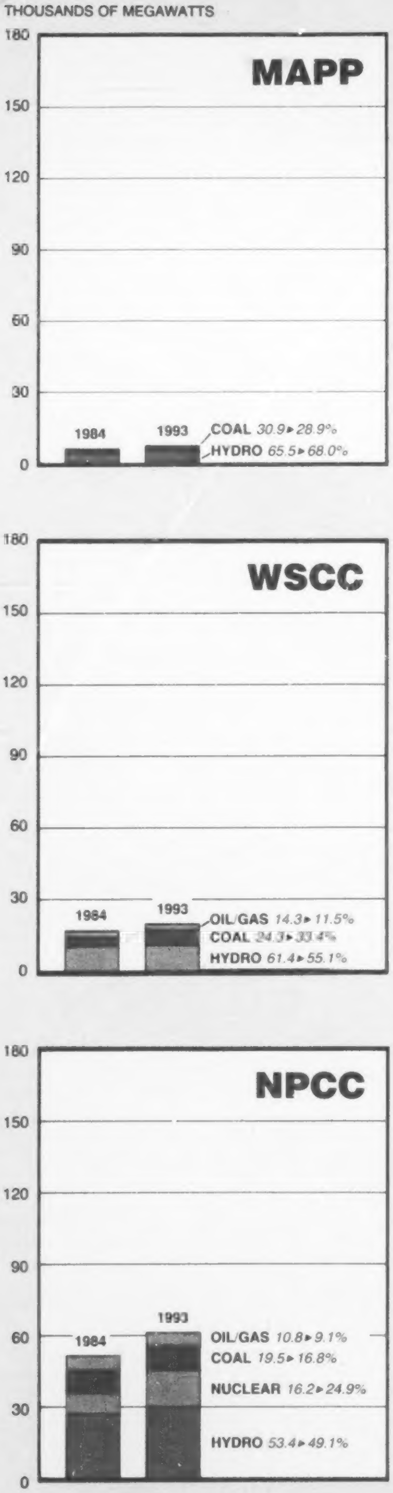
Generating Capability data provide a Regional breakdown by principal capacity and fuel types of the total generating capacity which is existing, presently under construction, or in various stages of planning; plus equipment upgradings, less deratings; less equipment removals.

The realization of these Generating Capability projections is contingent upon the scheduled completion of that generating capacity which is in various stages of construction, licensing, design, or planning.

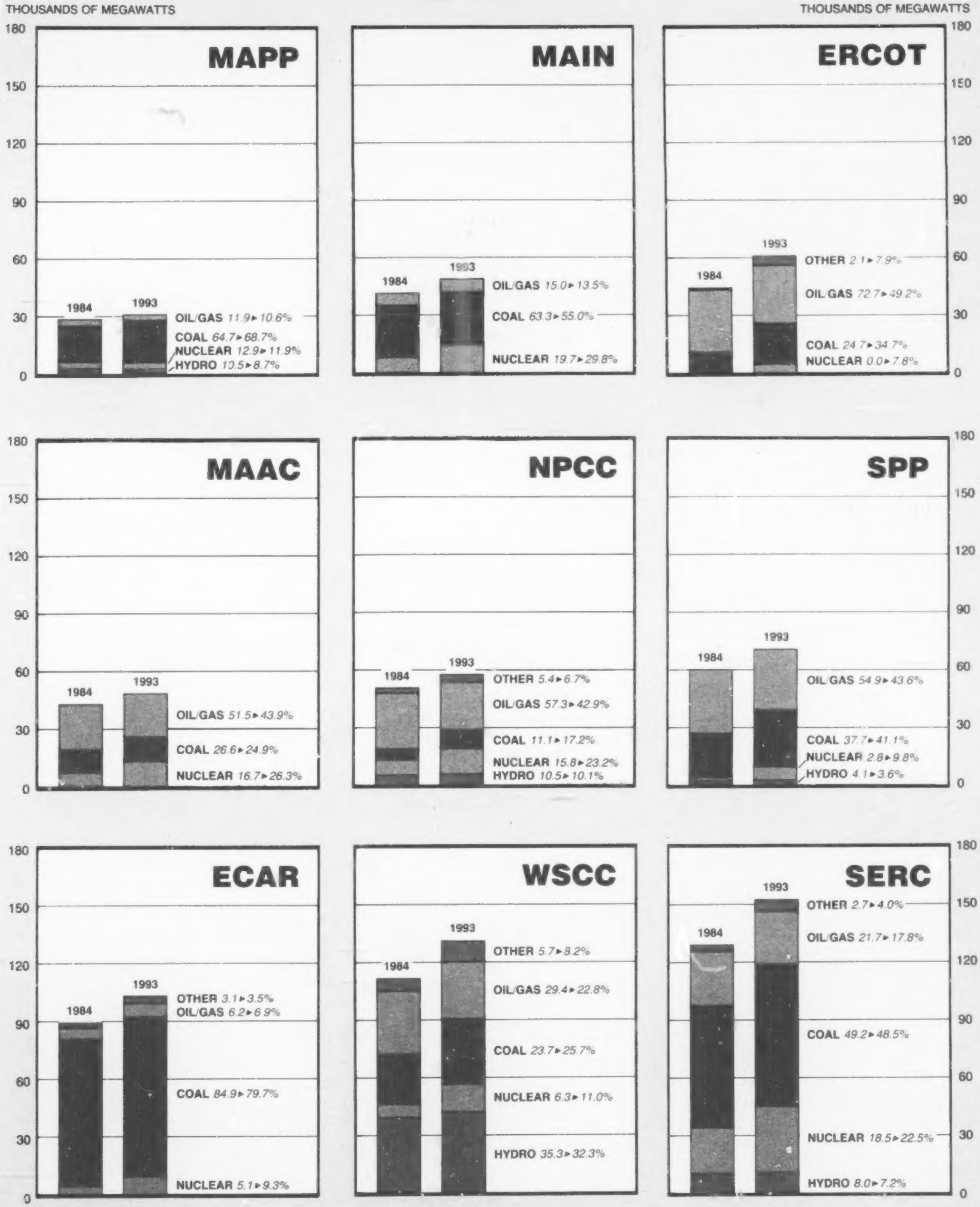
The Peak Demands as tabulated for the various NERC Regions (Tables 2-3) may occur in different months within a given season. These Generating Capability data of Table 9 correspond with the months of these projected Peak Demands, and are based on summer seasonal ratings.

For tabulations of the total planned resources, which include scheduled capacity purchases and sales in addition to installed generating capability, refer to Tables 4-5.

(Canada)*



(U.S.)*



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*The difference between the sum of the parts and 100% represents the share by sources not shown.

GENERATING CAPABILITY BY REGION
NERC-U.S. (MW)

TABLE 9

	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
COAL	256,401	263,132	273,745	278,989	285,757	288,443	292,723	295,074	301,247	304,255	312,787
NUCLEAR	58,789	64,815	81,090	91,701	101,631	104,082	106,986	112,036	115,613	115,613	115,613
HYDRO	68,746[a]	62,790	65,076	65,336	65,569	65,960	66,118	66,310	66,605	66,733	66,879
PUMPED STORAGE	12,812	14,469	15,111	16,615	16,611	16,640	16,619	16,954	18,803	18,794	18,794
GEOTHERMAL	1,247	1,426	1,495	1,942	2,001	2,212	2,346	2,605	2,864	2,884	2,884
OIL—STEAM	41,799	38,782	38,945	37,805	36,558	36,121	35,483	34,963	35,144	35,406	35,278
OIL—CT	23,063	22,434	21,876	21,859	21,856	21,761	21,740	21,809	21,716	22,070	22,429
OIL—CC	895	812	812	812	812	812	812	812	812	812	812
GAS—STEAM	38,206	38,106	38,296	38,296	38,057	38,061	37,815	37,567	36,979	35,843	34,968
GAS—CT	2,449	2,362	2,362	2,362	2,362	2,362	2,532	2,592	2,662	2,603	2,603
GAS—CC	487	487	487	487	487	487	487	787	787	787	787
DUAL FUEL—STEAM	71,646	71,897	70,556	69,240	68,133	67,792	67,572	66,904	66,209	65,781	65,436
DUAL FUEL—CT	14,374	15,035	15,044	15,142	15,132	15,057	15,357	15,580	15,788	15,998	16,298
DUAL FUEL—CC	4,403	4,488	4,488	4,488	4,488	4,488	4,488	4,488	4,488	4,488	4,488
OTHER	1,132	2,474	3,230	3,873	4,422	4,597	5,149	5,629	6,886	9,185	10,523
TOTAL	596,449	603,509	632,613	648,947	663,876	668,875	676,227	684,118	696,603	701,252	710,579

GENERATING CAPABILITY BY REGION
NERC-CANADA (MW)

TABLE 9

	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
COAL	15,774	16,228	16,434	16,800	17,104	17,490	17,876	17,876	18,116	18,476	19,116
NUCLEAR	7,090	8,387	10,200	10,981	11,762	12,643	13,524	13,524	13,524	14,405	15,286
HYDRO	38,419	42,262	44,287	44,587	44,628	44,660	44,693	44,708	44,723	45,049	46,258
PUMPED STORAGE	0	0	0	0	0	0	0	0	0	0	0
GEOTHERMAL	0	0	0	0	0	0	0	0	0	0	0
OIL—STEAM	4,228	4,228	4,228	4,228	4,228	4,228	4,228	4,228	4,228	4,228	4,228
OIL—CT	1,110	987	969	969	969	969	966	966	966	966	966
OIL—CC	0	0	0	0	0	0	0	0	0	0	0
GAS—STEAM	1,650	1,554	1,554	1,554	1,554	1,554	1,554	1,554	1,476	1,476	1,476
GAS—CT	215	215	215	215	215	215	215	215	215	215	215
GAS—CC	0	0	0	0	0	0	0	0	0	0	0
DUAL FUEL—STEAM	900	996	996	996	996	996	996	996	996	996	996
DUAL FUEL—CT	303	303	303	303	303	303	303	257	228	228	228
DUAL FUEL—CC	0	0	0	0	0	0	0	0	0	0	0
OTHER	0	0	0	0	0	35	52	70	87	105	105
TOTAL	69,689	75,160	79,186	80,633	81,759	83,093	84,407	84,394	84,559	86,144	88,874

GENERATING CAPABILITY BY REGION
ECAR (MW)

TABLE 9

	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
COAL	76,141	76,545	78,674	80,438	82,233	82,174	82.174	82,230	82.230	82.050	82,870
NUCLEAR	4,530	4,593	6,865	7,685	8.471	9.650	8.976	9.696	9,696	9,696	9,696
HYDRO	609	609	609	609	609	609	609	609	609	609	609
PUMPED STORAGE	2,767	2,768	2,768	3,608.	3,608	3,608	3,608	3.608	3,608	3,608	3,608
GEOTHERMAL	0	0	0	0	0	0	0	0	0	0	0
OIL—STEAM	3,640	2,269	2,882	2,203	2.203	3,071	3,071	2,612	2,818	3,431	3,431
OIL—CT	1,972	1,969	1,969	1,969	1,969	1,969	1,966	1,966	1,870	1,950	2,273
OIL—CC	226	226	226	226	226	226	226	226	226	226	226
GAS—STEAM	29	29	317	317	29	29	29	29	29	29	29
GAS—CT	1,000	1,115	1,115	1,115	1,115	1,115	1,185	1,185	1,255	1,255	1,255
GAS—CC	0	0	0	0	0	0	0	0	0	0	0
DUAL FUEL—STEAM	0	0	0	0	0	0	0	0	0	0	0
DUAL FUEL—CT	0	0	0	0	0	0	0	0	0	0	0
DUAL FUEL—CC	0	0	0	0	0	0	0	0	0	0	0
OTHER	0	0	0	0	0	0	0	0	0	0	0
TOTAL	90,914	90,123	95,425	98,170	100,463	102,451	101,844	102,161	102.341	102,854	103,997

GENERATING CAPABILITY BY REGION
ERCOT (MW)

TABLE 9

	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
COAL	11,091	11,091	11,091	11,811	12,996	13,135	14,848	16,425	18,197	19,371	21,291
NUCLEAR	0	0	1,150	2,185	3,550	3,550	4,800	4,800	4,800	4,800	4,800
HYDRO	236	236	236	239	239	239	239	239	239	239	239
PUMPED STORAGE	0	0	0	0	0	0	0	0	0	0	0
GEOTHERMAL	0	0	0	0	0	0	0	0	0	0	0
OIL—STEAM	0	0	0	0	0	0	0	0	0	0	0
OIL—CT	46	46	40	40	40	40	40	40	40	40	40
OIL—CC	0	0	0	0	0	0	0	0	0	0	0
GAS—STEAM	25,521	25,656	25,639	25,639	25,639	25.703	25.457	25.216	24,685	23,913	23,203
GAS—CT	246	246	246	246	246	246	246	246	246	246	246
GAS—CC	28	28	28	28	28	28	28	28	28	28	28
DUAL FUEL—STEAM	5,412	5,417	5,417	5,417	5,417	5,417	5,417	5,417	5,417	5,417	5,417
DUAL FUEL—CT	722	722	722	722	722	722	722	722	722	722	722
DUAL FUEL—CC	498	498	498	498	498	498	498	498	498	498	498
OTHER[b]	0	926	1,243	1,328	1,500	1,580	1,796	1,837	2,392	3,932	4,862
TOTAL	43,800	44,866	46,310	48,153	50,875	51,158	54.091	55,468	57,264	59,206	61,346

GENERATING CAPABILITY BY REGION
MAAC (MW)

TABLE 9

	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
COAL	12,109	12,097	12,097	12,097	12,097	12,097	12,097	12,097	12,097	12,097	12,722
NUCLEAR	9,247	7,591	10,472	10,472	11,539	11,539	11,539	13,474	13.474	13,474	13,474
HYDRO	956[a]	854	892	1,042	1,042	1,044	1,044	1,044	1,044	1,044	1,044
PUMPED STORAGE	1,280	1,280	1,280	1,280	1,280	1,280	1,280	1,280	1,280	1,280	1,280
GEOTHERMAL	0	0	0	0	0	0	0	0	0	0	0
OIL—STEAM	7,174	7,120	7,120	7,120	7,062	7,062	7,050	7,050	7,050	6,982	6,982
OIL—CT	5,004	4,922	4,464	4,461	4.458	4,458	4,455	4,454	4,454	4,454	4,460
OIL—CC	114	114	114	114	114	114	114	114	114	114	114
GAS—STEAM	0	0	0	0	0	0	0	0	0	0	0
GAS—CT	198	198	198	198	198	198	198	198	198	198	198
GAS—CC	0	0	0	0	0	0	0	0	0	0	0
DUAL FUEL—STEAM[c]	7,920	8,535	8.369	8,033	8.033	8,033	8.423	8,423	8.222	8,222	8,222
DUAL FUEL—CT[d]	2.282	2,282	2,282	2,282	2,282	2,282	2,282	2,282	2,282	2,282	2,282
DUAL FUEL—CC	218	218	218	218	218	218	218	218	218	218	218
OTHER[e]	232	220	267	267	173	173	173	173	173	173	173
TOTAL	46,734	45,431	47,773	47,584	48,496	48,498	48.873	50.807	50,606	50,538	51,169

GENERATING CAPABILITY BY REGION
MAIN (MW)

TABLE 9

	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
COAL	27,057	26,960	27,897	27,905	27,905	27,917	27,854	27,650	27,650	27,450	27,412
NUCLEAR	6,290	8,366	10,606	12,816	14,856	14,856	14.856	14,886	14,886	14,886	14,886
HYDRO	572	574	574	574	574	581	581	581	581	581	581
PUMPED STORAGE	300	300	300	300	300	300	300	300	300	300	300
GEOTHERMAL	0	0	0	0	0	0	0	0	0	0	0
OIL—STEAM	3,328	3,318	3.318	3,318	3.318	3,318	3.318	3,318	3.318	3,318	3,318
OIL—CT	1,226	1,226	1,226	1,226	1,226	1,226	1.226	1,250	1,250	1,250	1,250
OIL—CC	0	0	0	0	0	0	0	0	0	0	0
GAS—STEAM	6	6	6	6	6	6	6	6	6	6	6
GAS—CT	67	67	67	67	67	67	167	167	167	167	167
GAS—CC	0	0	0	0	0	0	0	300	300	300	300
DUAL FUEL—STEAM	677	482	492	492	492	492	492	450	450	450	450
DUAL FUEL—CT	1,274	1,274	1,274	1,274	1,274	1,274	1,274	1,274	1,274	1,274	1,274
DUAL FUEL—CC	0	0	0	0	0	0	0	0	0	0	0
OTHER[f]	0	0	0	0	0	0	0	0	10	10	10
TOTAL	40,797	42.573	45,760	47,978	50,018	50,037	50,074	50.182	50,192	49,992	49,954

GENERATING CAPABILITY BY REGION
MAIN—Cmnwlth. Ed. (MW)

TABLE 9

	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
COAL	6,911	6,890	6,890	6,890	6,890	6,890	6,890	6,890	6,890	6,890	6,890
NUCLEAR	4,778	6,874	7,994	10,204	11,294	11,294	11,294	11,294	11,294	11,294	11,294
HYDRO	0	0	0	0	0	0	0	0	0	0	0
PUMPED STORAGE	0	0	0	0	0	0	0	0	0	0	0
GEOTHERMAL	0	0	0	0	0	0	0	0	0	0	0
OIL—STEAM	2,698	2,698	2,698	2,698	2,698	2,698	2,698	2,698	2,698	2,698	2,698
OIL—CT	438	438	438	438	438	438	438	438	438	438	438
OIL—CC	0	0	0	0	0	0	0	0	0	0	0
GAS—STEAM	0	0	0	0	0	0	0	0	0	0	0
GAS—CT	0	0	0	0	0	0	0	0	0	0	0
GAS—CC	0	0	0	0	0	0	0	0	0	0	0
DUAL FUEL—STEAM	0	0	0	0	0	0	0	0	0	0	0
DUAL FUEL—CT	602	602	602	602	602	602	602	602	602	602	602
DUAL FUEL—CC	0	0	0	0	0	0	0	0	0	0	0
OTHER	0	0	0	0	0	0	0	0	0	0	0
TOTAL	15,427	17,502	18,622	20,832	21,922	21,922	21,922	21,922	21,922	21,922	21,922

GENERATING CAPABILITY BY REGION
MAIN—E. Missouri (MW)

TABLE 9

	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
COAL	5,596	5,596	5,596	5,596	5,596	5,596	5,596	5,596	5,596	5,596	5,596
NUCLEAR	0	0	1,120	1,120	1,120	1,120	1,120	1,150	1,150	1,150	1,150
HYDRO	331	331	331	331	331	331	331	331	331	331	331
PUMPED STORAGE	300	300	300	300	300	300	300	300	300	300	300
GEOTHERMAL	0	0	0	0	0	0	0	0	0	0	0
OIL—STEAM	196	196	196	196	196	196	196	196	196	196	196
OIL—CT	349	349	349	349	349	349	349	349	349	349	349
OIL—CC	0	0	0	0	0	0	0	0	0	0	0
GAS—STEAM	0	0	0	0	0	0	0	0	0	0	0
GAS—CT	37	37	37	37	37	37	37	37	37	37	37
GAS—CC	0	0	0	0	0	0	0	0	0	0	0
DUAL FUEL—STEAM	265	265	265	265	265	265	265	265	265	265	265
DUAL FUEL—CT	13	13	13	13	13	13	13	13	13	13	13
DUAL FUEL—CC	0	0	0	0	0	0	0	0	0	0	0
OTHER	0	0	0	0	0	0	0	0	0	0	0
TOTAL	7,087	7,087	8,207	8,207	8,207	8,207	8,207	8,237	8,237	8,237	8,237

GENERATING CAPABILITY BY REGION
MAIN—So. Cent. Ill. (MW)

TABLE 9

	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
COAL	8,215	8.161	8,171	8,171	8.171	8.171	8.108	7,900	7,900	7,825	7,787
NUCLEAR	0	0	0	0	950	950	950	950	950	950	950
HYDRO	2	2	2	2	2	2	2	2	2	2	2
PUMPED STORAGE	0	0	0	0	0	0	0	0	0	0	0
GEOTHERMAL	0	0	0	0	0	0	0	0	0	0	0
OIL—STEAM	434	424	424	424	424	424	424	424	424	424	424
OIL—CT	93	93	93	93	93	93	93	117	117	117	117
OIL—CC	0	0	0	0	0	0	0	0	0	0	0
GAS—STEAM	0	0	0	0	0	0	0	0	0	0	0
GAS—CT	30	30	30	30	30	30	130	130	130	130	130
GAS—CC	0	0	0	0	0	0	0	300	300	300	300
DUAL FUEL—STEAM	150	147	147	147	147	147	147	147	147	147	147
DUAL FUEL—CT	163	163	163	163	163	163	163	163	163	163	163
DUAL FUEL—CC	0	0	0	0	0	0	0	0	0	0	0
OTHER	0	0	0	0	0	0	0	0	0	0	0
TOTAL	9,087	9,070	9,030	9.030	9.980	9,980	10.017	10.133	10.133	10.058	10,020

GENERATING CAPABILITY BY REGION
MAIN—WIUM (MW)

TABLE 9

	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
COAL	6,335	6.313	7.240	7.248	7,248	7,260	7.260	7,264	7,264	7.139	7,139
NUCLEAR	1,512	1,492	1,492	1,492	1,492	1.492	1,492	1,492	1,492	1,492	1,492
HYDRO	239	241	241	241	241	248	248	248	248	248	248
PUMPED STORAGE	0	0	0	0	0	0	0	0	0	0	0
GEOTHERMAL	0	0	0	0	0	0	0	0	0	0	0
OIL—STEAM	0	0	0	0	0	0	0	0	0	0	0
OIL—CT	346	346	346	346	346	346	346	346	346	346	346
OIL—CC	0	0	0	0	0	0	0	0	0	0	0
GAS—STEAM	6	6	6	6	6	6	6	6	6	6	6
GAS—CT	0	0	0	0	0	0	0	0	0	0	0
GAS—CC	0	0	0	0	0	0	0	0	0	0	0
DUAL FUEL—STEAM	262	70	80	80	80	80	80	38	38	38	38
DUAL FUEL—CT	496	496	496	496	496	496	496	496	496	496	496
DUAL FUEL—CC	0	0	0	0	0	0	0	0	0	0	0
OTHER[1]	0	0	0	0	0	0	0	0	10	10	10
TOTAL	9.196	8,964	9,901	9,909	9.909	9,928	9,928	9.890	9.900	9,775	9,775

GENERATING CAPABILITY BY REGION
MAPP-U.S. (MW)

TABLE 9

	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
COAL	17,612	18,557	18,549	18,995	19,203	20,020	20,006	19,997	20,503	20,503	21,431
NUCLEAR	3,700	3,701	3,701	3,701	3,701	3,701	3,701	3,701	3,701	3,701	3,701
HYDRO	3,020	3,015	2,973	2,780	2,779	2,815	2,821	2,821	2,710	2,712	2,711
PUMPED STORAGE	0	0	0	0	0	0	0	0	0	0	0
GEOTHERMAL	0	0	0	0	0	0	0	0	0	0	0
OIL—STEAM	359	75	95	95	95	94	94	94	94	94	94
OIL—CT	2,713	2,270	2,269	2,270	2,274	2,238	2,223	2,269	2,270	2,270	2,270
OIL—CC	173	109	109	109	109	109	109	109	109	109	109
GAS—STEAM	159	6	6	6	7	7	7	0	0	0	0
GAS—CT	202	0	0	0	0	0	0	0	0	0	0
GAS—CC	0	0	0	0	0	0	0	0	0	0	0
DUAL FUEL—STEAM	0	337	307	307	311	258	258	256	256	251	251
DUAL FUEL—CT	0	558	557	555	558	483	483	513	513	513	513
DUAL FUEL—CC	0	61	61	61	61	61	61	61	61	61	61
OTHER[9]	14	14	14	14	14	14	14	14	14	14	14
TOTAL	27,952	28,703	28,641	28,893	29,112	29,800	29,777	29,835	30,231	30,228	31,155

GENERATING CAPABILITY BY REGION
MAPP-CANADA (MW)

TABLE 9

	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
COAL	1,959	1,969	1,969	1,969	1,907	1,907	1,907	1,907	1,907	1,907	2,187
NUCLEAR	0	0	0	0	0	0	0	0	0	0	0
HYDRO	4,178	4,178	4,178	4,430	4,430	4,430	4,430	4,430	4,430	4,430	5,150
PUMPED STORAGE	0	0	0	0	0	0	0	0	0	0	0
GEOTHERMAL	0	0	0	0	0	0	0	0	0	0	0
OIL—STEAM	0	0	0	0	0	0	0	0	0	0	0
OIL—CT	22	22	22	22	22	22	22	22	22	22	22
OIL—CC	0	0	0	0	0	0	0	0	0	0	0
GAS—STEAM	96	0	0	0	0	0	0	0	0	0	0
GAS—CT	115	115	115	115	115	115	115	115	115	115	115
GAS—CC	0	0	0	0	0	0	0	0	0	0	0
DUAL FUEL—STEAM	0	96	96	96	96	96	96	96	96	96	96
DUAL FUEL—CT	0	0	0	0	0	0	0	0	0	0	0
DUAL FUEL—CC	0	0	0	0	0	0	0	0	0	0	0
OTHER	0	0	0	0	0	0	0	0	0	0	0
TOTAL	6,370	6,380	6,380	6,632	6,570	6,570	6,570	6,570	6,570	6,570	7,570

GENERATING CAPABILITY BY REGION
NPCC-U.S. (MW)

TABLE 9

	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
COAL	5,577	5.622	6,349	6.986	8.047	9,247	9.851	9.851	9,851	9,911	9,911
NUCLEAR	7,712	7,999	8,802	11,108	12,188	12,188	12.188	12.188	13,338	13,338	13,338
HYDRO	5,312	5,330	5,352	5,367	5.362	5,389	5.425	5.447	5,796	5,806	5,808
PUMPED STORAGE	2,613	2,613	2,613	2,613	2,613	2,613	2,613	2,613	3,613	3,613	3,613
GEOTHERMAL	0	0	0	0	0	0	0	0	0	0	0
OIL—STEAM	16,400	16,341	16,191	15.941	14,752	13,448	12,822	12.761	12,761	12,518	12,416
OIL—CT	2,743	2,651	2.594	2,594	2,591	2,591	2,591	2,591	2.656	2,656	2,656
OIL—CC	382	363	363	363	363	363	363	363	363	363	363
GAS—STEAM	0	0	0	0	0	0	0	0	0	0	0
GAS—CT	48	48	48	48	48	48	48	48	48	48	48
GAS—CC	0	0	0	0	0	0	0	0	0	0	0
DUAL FUEL—STEAM	7,494	7,494	7.494	7,095	7,095	7,066	7,006	7.006	7,006	7,006	7,006
DUAL FUEL—CT	2,111	2,120	2,120	2,120	2,120	2,120	2,120	2,120	2,120	2,120	2,120
DUAL FUEL—CC	99	93	93	93	93	93	93	93	93	93	93
OTHER[h]	17	117	149	153	153	153	178	218	218	218	218
TOTAL	50,508	50,791	52,174	54,481	55,425	55.319	55,298	55.299	57,863	57,690	57,590

GENERATING CAPABILITY BY REGION
NPCC—New York (MW)

TABLE 9

	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
COAL	3,383	3.383	3.968	4,355	5,416	6.242	6,472	6.472	6,472	6,472	6,472
NUCLEAR	3,405	3.692	4,501	4.501	5,581	5,581	5,581	5.581	5,581	5,581	5,581
HYDRO	4,005	4,005	4,015	4,030	4,022	4,049	4.085	4,107	4,456	4,466	4,468
PUMPED STORAGE	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	2,000	2,000	2,000
GEOTHERMAL	0	0	0	0	0	0	0	0	0	0	0
OIL—STEAM	8,422	8,486	8,486	8,486	7,297	6,471	6,252	6,191	6,191	6,191	6,191
OIL—CT	1,753	1,753	1,753	1,753	1,753	1,753	1,753	1,753	1,753	1,753	1,753
OIL—CC	0	0	0	0	0	0	0	0	0	0	0
GAS—STEAM	0	0	0	0	0	0	0	0	0	0	0
GAS—CT	45	45	45	45	45	45	45	45	45	45	45
GAS—CC	0	0	0	0	0	0	0	0	0	0	0
DUAL FUEL—STEAM	6,011	6,011	6,011	5.612	5.612	5.583	5.523	5,523	5,523	5,523	5,523
DUAL FUEL—CT	1,734	1,734	1,734	1,734	1,734	1,734	1,734	1,734	1,734	1,734	1,734
DUAL FUEL—CC	0	0	0	0	0	0	0	0	0	0	0
OTHER[h]	0	50	82	82	82	82	107	147	147	147	147
TOTAL	29,758	30,159	31,595	31.598	32,542	32,540	32.552	32.553	33,902	33,912	33,914

CONTINUED

GENERATING CAPABILITY BY REGION
NPCC—New England (MW)

TABLE 9

	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
COAL	2,194	2,239	2,381	2,631	2,631	3,005	3,379	3,379	3,379	3,439	3,439
NUCLEAR	4,307	4,307	4,307	6,607	6,607	6,607	6,607	6,607	7,757	7,757	7,757
HYDRO [i]	1,307	1,325	1,337	1,337	1,340	1,340	1,340	1,340	1,340	1,340	1,340
PUMPED STORAGE	1,613	1,613	1,613	1,613	1,613	1,613	1,613	1,613	1,613	1,613	1,613
GEOTHERMAL	0	0	0	0	0	0	0	0	0	0	0
OIL—STEAM	7,978	7,855	7,705	7,455	7,455	6,977	6,570	6.570	6.570	6,327	6,225
OIL—CT	990	898	841	841	838	838	838	838	903	903	903
OIL—CC	382	363	363	363	363	363	363	363	363	363	363
GAS—STEAM	0	0	0	0	0	0	0	0	0	0	0
GAS—CT	3	3	3	3	3	3	3	3	3	3	3
GAS—CC	0	0	0	0	0	0	0	0	0	0	0
DUAL FUEL—STEAM	1,483	1,483	1,483	1,483	1,483	1,483	1.483	1,483	1,483	1,483	1,483
DUAL FUEL—CT	377	386	386	386	386	386	386	386	386	386	386
DUAL FUEL—CC	99	93	93	93	93	93	93	93	93	93	93
OTHER [h]	17	67	67	71	71	71	71	71	71	71	71
TOTAL	20,750	20,632	20,579	22,883	22,883	22,779	22.746	22,746	23,961	23.778	23,676

GENERATING CAPABILITY BY REGION
NPCC-CANADA (MW)

TABLE 9

	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
COAL	10,099	10,099	10,305	10,305	10,305	10,305	10.305	10,305	10,305	10,305	10,305
NUCLEAR	7,090	8,387	10,200	10,981	11,762	12,643	13.524	13.524	13,524	14,405	15,286
HYDRO	25,100	27,593	29,168	29.216	29,257	29.289	29.322	29,337	29,352	29,678	30,167
PUMPED STORAGE	0	0	0	0	0	0	0	0	0	0	0
GEOTHERMAL	0	0	0	0	0	0	0	0	0	0	0
OIL—STEAM	4,228	4,228	4,228	4,228	4,228	4,228	4,228	4,228	4,228	4,228	4,228
OIL—CT	909	786	768	768	768	768	768	768	768	768	768
OIL—CC	0	0	0	0	0	0	0	0	0	0	0
GAS—STEAM	588	588	588	588	588	588	588	588	588	588	588
GAS—CT	0	0	0	0	0	0	0	0	0	0	0
GAS—CC	0	0	0	0	0	0	0	0	0	0	0
DUAL FUEL—STEAM	0	0	0	0	0	0	0	0	0	0	0
DUAL FUEL—CT	0	0	0	0	0	0	0	0	0	0	0
DUAL FUEL—CC	0	0	0	0	0	0	0	0	0	0	0
OTHER	0	0	0	0	0	35	52	70	87	105	105
TOTAL	48,014	51,681	55,257	56.086	56,908	57,856	58.787	58.820	58.852	60,077	61,447

GENERATING CAPABILITY BY REGION
NPCC—New Brunswick (MW)

TABLE 9

	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
COAL	282	282	282	282	282	282	282	282	282	282	282
NUCLEAR	639	639	639	639	639	639	639	639	639	639	639
HYDRO	846	846	846	846	846	846	846	846	846	846	846
PUMPED STORAGE	0	0	0	0	0	0	0	0	0	0	0
GEOTHERMAL	0	0	0	0	0	0	0	0	0	0	0
OIL—STEAM	1,366	1,366	1,366	1,366	1,366	1,366	1,366	1,366	1,366	1,366	1,366
OIL—CT	26	26	26	26	26	26	26	26	26	26	26
OIL—CC	0	0	0	0	0	0	0	0	0	0	0
GAS—STEAM	0	0	0	0	0	0	0	0	0	0	0
GAS—CT	0	0	0	0	0	0	0	0	0	0	0
GAS—CC	0	0	0	0	0	0	0	0	0	0	0
DUAL FUEL—STEAM	0	0	0	0	0	0	0	0	0	0	0
DUAL FUEL—CT	0	0	0	0	0	0	0	0	0	0	0
DUAL FUEL—CC	0	0	0	0	0	0	0	0	0	0	0
OTHER	0	0	0	0	0	0	0	0	0	0	0
TOTAL	3,159	3,159	3,159	3,159	3,159	3,159	3,159	3,159	3,159	3,159	3,159

GENERATING CAPABILITY BY REGION
NPCC—Ontario (MW)

TABLE 9

	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
COAL	9,817	9,817	10,023	10,023	10,023	10,023	10,023	10,023	10,023	10,023	10,023
NUCLEAR	5,764	7,061	8,874	9,655	10,436	11,317	12,198	12,198	12,198	13,079	13,960
HYDRO	6,114	6,128	6,163	6,168	6,168	6,168	6,168	6,168	6,168	6,168	6,168
PUMPED STORAGE	0	0	0	0	0	0	0	0	0	0	0
GEOTHERMAL	0	0	0	0	0	0	0	0	0	0	0
OIL—STEAM	2,232	2,232	2,232	2,232	2,232	2,232	2,232	2,232	2,232	2,232	2,232
OIL—CT	448	325	307	307	307	307	307	307	307	307	307
OIL—CC	0	0	0	0	0	0	0	0	0	0	0
GAS—STEAM	588	588	588	588	588	588	588	588	588	588	588
GAS—CT	0	0	0	0	0	0	0	0	0	0	0
GAS—CC	0	0	0	0	0	0	0	0	0	0	0
DUAL FUEL—STEAM	0	0	0	0	0	0	0	0	0	0	0
DUAL FUEL—CT	0	0	0	0	0	0	0	0	0	0	0
DUAL FUEL—CC	0	0	0	0	0	0	0	0	0	0	0
OTHER	0	0	0	0	0	35	52	70	87	105	105
TOTAL	24,963	26,151	28,187	28,973	29,754	30,670	31,568	31,586	31,603	32,502	33,383

CONTINUED

GENERATING CAPABILITY BY REGION
NPCC—Québec *(MW)*

TABLE 9

	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
COAL	0	0	0	0	0	0	0	0	0	0	0
NUCLEAR	687	687	687	687	687	687	687	687	687	687	687
HYDRO	18,140	20,619	22,159	22,202	22,243	22.275	22,308	22.323	22.338	22,664	23,153
PUMPED STORAGE	0	0	0	0	0	0	0	0	0	0	0
GEOTHERMAL	0	0	0	0	0	0	0	0	0	0	0
OIL—STEAM	630	630	630	630	630	630	630	630	630	630	630
OIL—CT	435	435	435	435	435	435	435	435	435	435	435
OIL—CC	0	0	0	0	0	0	0	0	0	0	0
GAS—STEAM	0	0	0	0	0	0	0	0	0	0	0
GAS—CT	0	0	0	0	0	0	0	0	0	0	0
GAS—CC	0	0	0	0	0	0	0	0	0	0	0
DUAL FUEL—STEAM	0	0	0	0	0	0	0	0	0	0	0
DUAL FUEL—CT	0	0	0	0	0	0	0	0	0	0	0
DUAL FUEL—CC	0	0	0	0	0	0	0	0	0	0	0
OTHER	0	0	0	0	0	0	0	0	0	0	0
TOTAL	19,892	22,371	23,911	23.954	23,995	24.027	24.060	24,075	24,090	24,416	24,905

GENERATING CAPABILITY BY REGION
SERC *(MW)*

TABLE 9

	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
COAL	60,357	63,405	66,059	66,270	67,630	68,042	70,067	69.913	71,299	72,199	73,886
NUCLEAR	21,925	23,894	25,064	27,109	29,429	30.699	33,027	33.027	34,204	34,204	34,204
HYDRO	10,181	10,297	10,695	10,798	10,798	10,809	10,876	10,876	10,876	10,946	10,946
PUMPED STORAGE	2,934	3,142	3,772	4,402	4,402	4,402	4,402	4,702	5,550	5,550	5,550
GEOTHERMAL	0	0	0	0	0	0	0	0	0	0	0
OIL—STEAM	10,337	9,098	8,778	8.567	8,567	8.567	8.567	8,567	8,542	8,502	8,476
OIL—CT	6.937	6,917	6.883	6.868	6,867	6,792	6,792	6.792	6,729	7,003	7,033
OIL—CC	0	0	0	0	0	0	0	0	0	0	0
GAS—STEAM	0	0	0	0	0	0	0	0	0	0	0
GAS—CT	30	30	30	30	30	30	30	30	30	30	30
GAS—CC	0	0	0	0	0	0	0	0	0	0	0
DUAL FUEL—STEAM	8,160	8.078	8,078	8.012	7,951	7.951	7,951	7,848	7,718	7,718	7,718
DUAL FUEL—CT	3,265	3,227	3,227	3,227	3,214	3,214	3.214	3.214	3.214	3,324	3,324
DUAL FUEL—CC	600	600	600	600	600	600	600	600	600	600	600
OTHER[1]	273	305	362	390	475	490	555	570	575	575	580
TOTAL	124,999	128,993	133,548	136,273	139,963	141,596	146.081	146.139	149,337	150,651	152,347

GENERATING CAPABILITY BY REGION
SERC—Florida (MW)

TABLE 9

	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
COAL	3,715	4.562	6,428	6.639	7.191	7,603	8.155	8.155	8.155	8,755	9.155
NUCLEAR	3.651	3,741	3.741	3,741	3,741	3.741	3,741	3.741	3,741	3.741	3,741
HYDRO	36	36	44	47	47	47	47	47	47	47	47
PUMPED STORAGE	0	0	0	0	0	0	0	0	0	0	0
GEOTHERMAL	0	0	0	0	0	0	0	0	0	0	0
OIL—STEAM	7,870	7,477	7.327	7.116	7,116	7.116	7,116	7.116	7,116	7,116	7,116
OIL—CT	2,409	2,389	2,389	2.389	2.388	2,388	2.388	2.388	2,388	2,694	2,694
OIL—CC	0	0	0	0	0	0	0	0	0	0	0
GAS—STEAM	0	0	0	0	0	0	0	0	0	0	0
GAS—CT	0	0	0	0	0	0	0	0	0	0	0
GAS—CC	0	0	0	0	0	0	0	0	0	0	0
DUAL FUEL—STEAM	6,176	6,094	6.094	6.083	6,083	6.083	6,083	6.061	6.061	6.061	6,061
DUAL FUEL—CT	2,030	1,992	1,992	1.992	1,979	1,979	1,979	1,979	1,979	2,089	2,089
DUAL FUEL—CC	510	510	510	510	510	510	510	510	510	510	510
OTHER	107	107	107	107	107	107	107	107	107	107	107
TOTAL	26,504	25,908	28,632	28.624	29.162	29.574	30.126	30.104	30,104	31,120	31,520

GENERATING CAPABILITY BY REGION
SERC—Southern (MW)

TABLE 9

	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
COAL	20,778	21,666	22,284	22,284	23,092	23.092	24,565	24.411	25,077	25,077	25,114
NUCLEAR	3,161	3.260	3,260	3.260	4,410	4,535	5,686	5.686	5.686	5,686	5,686
HYDRO	3,378	3,443	3.683	3,783	3,783	3.783	3,850	3.850	3.850	3,920	3,920
PUMPED STORAGE	512	488	488	488	488	488	488	638	1,486	1,486	1,486
GEOTHERMAL	0	0	0	0	0	0	0	0	0	0	0
OIL—STEAM	228	228	228	228	228	228	228	228	203	163	137
OIL—CT	1,214	1,214	1,180	1,165	1,165	1,090	1,090	1,090	1,027	995	1,025
OIL—CC	0	0	0	0	0	0	0	0	0	0	0
GAS—STEAM	0	0	0	0	0	0	0	0	0	0	0
GAS—CT	21	21	21	21	21	21	21	21	21	21	21
GAS—CC	0	0	0	0	0	0	0	0	0	0	0
DUAL FUEL—STEAM	1,072	1,072	1.072	1.017	956	956	956	875	745	745	745
DUAL FUEL—CT	0	0	0	0	0	0	0	0	0	0	0
DUAL FUEL—CC	62	62	62	62	62	62	62	62	62	62	62
OTHER	0	0	0	0	0	0	0	0	0	0	0
TOTAL	30,426	31,454	32,278	32,308	34.205	34.255	36.946	36,861	38.157	38,155	39,196

CONTINUED

GENERATING CAPABILITY BY REGION
SERC—TVA (MW)

TABLE 9

	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
COAL	16,167	16,109	16,109	16,109	16,109	16,109	16,109	16,109	16,109	16,109	16,109
NUCLEAR	5,491	5,491	6,661	6,661	7,831	7,831	9,008	9,008	10,185	10,185	10,185
HYDRO	4,300	4,300	4,300	4,300	4,300	4,300	4,300	4,300	4,300	4,300	4,300
PUMPED STORAGE	1,300	1,532	1,532	1,532	1,532	1,532	1,532	1,532	1,532	1,532	1,532
GEOTHERMAL	0	0	0	0	0	0	0	0	0	0	0
OIL—STEAM	0	0	0	0	0	0	0	0	0	0	0
OIL—CT	2,066	2,066	2,066	2,066	2,066	2,066	2,066	2,066	2,066	2,066	2,066
OIL—CC	0	0	0	0	0	0	0	0	0	0	0
GAS—STEAM	0	0	0	0	0	0	0	0	0	0	0
GAS—CT	0	0	0	0	0	0	0	0	0	0	0
GAS—CC	0	0	0	0	0	0	0	0	0	0	0
DUAL FUEL—STEAM	0	0	0	0	0	0	0	0	0	0	0
DUAL FUEL—CT	0	0	0	0	0	0	0	0	0	0	0
DUAL FUEL—CC	0	0	0	0	0	0	0	0	0	0	0
OTHER	0	0	0	0	0	0	0	0	0	0	0
TOTAL	29,324	29,498	30,668	30,668	31,838	31,838	33,015	33,015	34,192	34,192	34,192

GENERATING CAPABILITY BY REGION
SERC—VACAR (MW)

TABLE 9

	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
COAL	19,697	21,068	21,238	21,238	21,238	21,238	21,238	21,238	21,958	22,258	23,508
NUCLEAR	9,622	11,402	11,402	13,447	13,447	14,592	14,592	14,592	14,592	14,592	14,592
HYDRO	2,467	2,518	2,668	2,668	2,668	2,679	2,679	2,679	2,679	2,679	2,679
PUMPED STORAGE	1,122	1,122	1,752	2,382	2,382	2,382	2,382	2,532	2,532	2,532	2,532
GEOTHERMAL	0	0	0	0	0	0	0	0	0	0	0
OIL—STEAM	2,239	1,393	1,223	1,223	1,223	1,223	1,223	1,223	1,223	1,223	1,223
OIL—CT	1,248	1,248	1,248	1,248	1,248	1,248	1,248	1,248	1,248	1,248	1,248
OIL—CC	0	0	0	0	0	0	0	0	0	0	0
GAS—STEAM	0	0	0	0	0	0	0	0	0	0	0
GAS—CT	9	9	9	9	9	9	9	9	9	9	9
GAS—CC	0	0	0	0	0	0	0	0	0	0	0
DUAL FUEL—STEAM	912	912	912	912	912	912	912	912	912	912	912
DUAL FUEL—CT	1,235	1,235	1,235	1,235	1,235	1,235	1,235	1,235	1,235	1,235	1,235
DUAL FUEL—CC	28	28	28	28	28	28	28	28	28	28	28
OTHER	166	198	255	283	368	383	448	463	468	468	473
TOTAL	38,745	41,133	41,970	44,673	44,758	45,929	45,994	46,159	46,884	47,184	48,439

GENERATING CAPABILITY BY REGION
SPP (MW)

TABLE 9

	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
COAL	21,601	22,763	25,091	25,751	25,751	25,751	25,751	26,336	27,216	27,967	29,590
NUCLEAR	1,694	1,694	5,004	5,944	5,944	5,944	5,944	7,069	7,069	7,069	7,069
HYDRO	2,361	2,464	2,597	2,597	2,597	2,597	2,597	2,597	2,597	2,597	2,597
PUMPED STORAGE	260	260	260	260	260	260	260	260	260	260	260
GEOTHERMAL	0	0	0	0	0	0	0	0	0	0	0
OIL—STEAM	50	50	50	50	50	50	50	50	50	50	50
OIL—CT	1,508	1,508	1,506	1,506	1,506	1,522	1,522	1,522	1,522	1,522	1,522
OIL—CC	0	0	0	0	0	0	0	0	0	0	0
GAS—STEAM	12,207	12,125	11,940	11,940	11,929	11,869	11,869	11,869	11,812	11,448	11,283
GAS—CT	515	515	515	515	515	515	515	575	575	516	516
GAS—CC	459	459	459	459	459	459	459	459	459	459	459
DUAL FUEL—STEAM	17,325	17,282	16,896	16,634	16,275	16,275	15,905	15,538	15,413	15,383	15,270
DUAL FUEL—CT	717	708	708	752	752	752	1,052	1,252	1,452	1,452	1,752
DUAL FUEL—CC	535	534	534	534	534	534	534	534	534	534	534
OTHER	62	62	62	62	224	224	224	224	597	848	1,038
TOTAL	59,294	60,424	65,622	67,004	66,796	66,752	66,682	68,285	69,556	70,105	71,940

GENERATING CAPABILITY BY REGION
SPP—E. Ark.—W. Miss.—La. Area (MW)

TABLE 9

	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
COAL	4,421	4,961	5,726	6,046	6,046	6,046	6,046	6,046	6,046	6,046	6,846
NUCLEAR	1,694	1,694	3,923	4,863	4,863	4,863	4,863	5,988	5,988	5,988	5,988
HYDRO	69	69	69	69	69	69	69	69	69	69	69
PUMPED STORAGE	0	0	0	0	0	0	0	0	0	0	0
GEOTHERMAL	0	0	0	0	0	0	0	0	0	0	0
OIL—STEAM	0	0	0	0	0	0	0	0	0	0	0
OIL—CT	281	281	281	281	281	281	281	281	281	281	281
OIL—CC	0	0	0	0	0	0	0	0	0	0	0
GAS—STEAM	4,756	4,629	4,511	4,511	4,500	4,476	4,476	4,476	4,419	4,364	4,364
GAS—CT	10	10	10	10	10	10	10	10	10	10	10
GAS—CC	0	0	0	0	0	0	0	0	0	0	0
DUAL FUEL—STEAM	13,094	13,094	12,758	12,516	12,153	12,153	11,783	11,451	11,326	11,326	11,213
DUAL FUEL—CT	124	124	124	124	124	124	124	124	124	124	124
DUAL FUEL—CC	203	203	203	203	203	203	203	203	203	203	203
OTHER	13	13	13	13	0	0	0	0	0	0	0
TOTAL	24,665	25,078	27,618	28,636	28,249	28,225	27,855	28,648	28,466	28,411	29,098

GENERATING CAPABILITY BY REGION
SPP—W. Ark.–Okla. Area (MW)

TABLE 9

	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
COAL	7,266	7,721	9,314	9,634	9,634	9,634	9,634	10,159	10,209	10,810	11,433
NUCLEAR	0	0	0	0	0	0	0	0	0	0	0
HYDRO	2,276	2,379	2,512	2,512	2,512	2,512	2,512	2,512	2,512	2,512	2,512
PUMPED STORAGE	260	260	260	260	260	260	260	260	260	260	260
GEOTHERMAL	0	0	0	0	0	0	0	0	0	0	0
OIL—STEAM	50	50	50	50	50	50	50	50	50	50	50
OIL—CT	67	67	65	65	65	61	61	61	61	61	61
OIL—CC	0	0	0	0	0	0	0	0	0	0	0
GAS—STEAM	7,391	7,436	7,369	7,369	7,369	7,333	7,333	7,333	7,333	7,024	6,859
GAS—CT	403	403	403	403	403	403	403	403	403	344	344
GAS—CC	459	459	459	459	459	459	459	459	459	459	459
DUAL FUEL—STEAM	2,025	1,978	1,928	1,928	1,928	1,928	1,928	1,928	1,928	1,928	1,928
DUAL FUEL—CT	0	0	0	0	0	0	300	500	700	700	1,000
DUAL FUEL—CC	255	255	255	255	255	255	255	255	255	255	255
OTHER	49	49	49	49	224	224	224	224	597	848	1,038
TOTAL	20,501	21,057	22,664	22,984	23,159	23,119	23,419	24,144	24,767	25,251	26,199

GENERATING CAPABILITY BY REGION
SPP—W. Mo.–Kan. Area (MW)

TABLE 9

	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
COAL	9,914	10,081	10,051	10,071	10,071	10,071	10,071	10,131	10,961	11,111	11,311
NUCLEAR	0	0	1,081	1,081	1,081	1,081	1,081	1,081	1,081	1,081	1,081
HYDRO	16	16	16	16	16	16	16	16	16	16	16
PUMPED STORAGE	0	0	0	0	0	0	0	0	0	0	0
GEOTHERMAL	0	0	0	0	0	0	0	0	0	0	0
OIL—STEAM	0	0	0	0	0	0	0	0	0	0	0
OIL—CT	1,160	1,160	1,160	1,160	1,160	1,180	1,180	1,180	1,180	1,180	1,180
OIL—CC	0	0	0	0	0	0	0	0	0	0	0
GAS—STEAM	60	60	60	60	60	60	60	60	60	60	60
GAS—CT	102	102	102	102	102	102	102	162	162	162	162
GAS—CC	0	0	0	0	0	0	0	0	0	0	0
DUAL FUEL—STEAM	2,206	2,210	2,210	2,190	2,194	2,194	2,194	2,159	2,159	2,129	2,129
DUAL FUEL—CT	593	584	584	628	628	628	628	628	628	628	628
DUAL FUEL—CC	77	76	76	76	76	76	76	76	76	76	76
OTHER	0	0	0	0	0	0	0	0	0	0	0
TOTAL	14,128	14,289	15,340	15,384	15,388	15,408	15,408	15,493	16,323	16,443	16,643

GENERATING CAPABILITY BY REGION
WSCC-U.S.[k] (MW)

TABLE 9

	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
COAL	24,856	26,092	27,938	28,736	29,895	30,060	30.075	30.575	32.204	32,707	33,674
NUCLEAR	3,691	6,977	9,420	10,681	11,953	11,955	11,955	13,195	14.445	14,445	14,445
HYDRO	45,499[a]	39,411	41,148	41,330	41,569	41,877	41,926	42,096	42,153	42,199	42,344
PUMPED STORAGE	2,658	4,106	4,118	4,152	4,148	4,177	4,156	4.191	4.192	4,183	4,183
GEOTHERMAL	1,247	1,426	1,495	1,942	2,001	2,212	2,346	2.605	2,864	2,884	2,884
OIL—STEAM	511	511	511	511	511	511	511	511	511	511	511
OIL—CT	914	925	925	925	925	925	925	925	925	925	925
OIL—CC	0	0	0	0	0	0	0	0	0	0	0
GAS—STEAM	284	284	388	388	447	447	447	447	447	447	447
GAS—CT	143	143	143	143	143	143	143	143	143	143	143
GAS—CC	0	0	0	0	0	0	0	0	0	0	0
DUAL FUEL—STEAM	24,658	24,272	23,503	23,250	22,559	22.300	22,120	21,966	21,727	21,334	21,102
DUAL FUEL—CT	4,003	4.144	4,154	4,210	4,210	4.210	4,210	4,211	4,211	4,311	4,311
DUAL FUEL—CC	2,453	2,484	2,484	2,484	2,484	2.484	2.484	2.484	2,484	2,484	2,484
OTHER	534	830	1,133	1,659	1,883	1,963	2,209	2,593	2,907	3,415	3,628
TOTAL	111,451	111,605	117,360	120,411	122,728	123,264	123.507	125.942	129,213	129,988	131,081

GENERATING CAPABILITY BY REGION
WSCC—NWPP (MW)

TABLE 9

	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
COAL	9,025	9,725	10,375	11,075	11,142	11,142	11.143	11,145	11,578	11,612	11,616
NUCLEAR	1,080	2,180	2.180	2.180	2,180	2,180	2,180	3.420	4,670	4,670	4,670
HYDRO	33,224[a]	28,988	29,088	30,811	30,233	30,233	30.233	30,811	30,811	30,811	30,811
PUMPED STORAGE	0	0	0	0	0	0	0	0	0	0	0
GEOTHERMAL	0	20	20	20	20	20	20	20	20	20	20
OIL—STEAM	136	136	136	136	136	136	136	136	136	136	136
OIL—CT	226	227	227	227	227	227	227	227	227	227	227
OIL—CC	0	0	0	0	0	0	0	0	0	0	0
GAS—STEAM	0	0	0	0	0	0	0	0	0	0	0
GAS—CT	15	15	15	15	15	15	15	15	15	15	15
GAS—CC	0	0	0	0	0	0	0	0	0	0	0
DUAL FUEL—STEAM	602	645	645	645	645	645	645	645	645	645	645
DUAL FUEL—CT	623	799	799	799	797	797	797	799	799	799	799
DUAL FUEL—CC	500	500	500	500	493	493	493	500	500	500	500
OTHER	48	110	145	179	209	219	229	239	249	309	319
TOTAL	45,479	43.345	44.130	46,587	46,097	46.107	46.118	47,957	49,650	49,744	49,758

GENERATING CAPABILITY BY REGION

WSCC—RMPA (MW)

TABLE 9

	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
COAL	5,543	6,063	6,075	6,091	6,091	6,121	6,131	6,616	6,688	6,688	7,288
NUCLEAR	200	200	200	275	275	275	275	275	275	275	275
HYDRO	2,171	2,199	2,263	2,345	2,386	2,412	2,412	2,429	2,429	2,429	2,429
PUMPED STORAGE	190	362	374	362	362	362	362	362	362	362	362
GEOTHERMAL	0	0	0	0	0	0	0	0	0	0	0
OIL—STEAM	0	0	0	0	0	0	0	0	0	0	0
OIL—CT	0	0	0	0	0	0	0	0	0	0	0
OIL—CC	0	0	0	0	0	0	0	0	0	0	0
GAS—STEAM	0	0	0	0	0	0	0	0	0	0	0
GAS—CT	0	0	0	0	0	0	0	0	0	0	0
GAS—CC	0	0	0	0	0	0	0	0	0	0	0
DUAL FUEL—STEAM	354	354	337	337	337	337	337	329	312	312	312
DUAL FUEL—CT	587	587	587	587	587	587	587	587	587	587	587
DUAL FUEL—CC	0	0	0	0	0	0	0	0	0	0	0
OTHER	7	12	31	42	72	72	73	73	73	73	80
TOTAL	9,052	9,777	9,867	10,039	10,110	10,166	10,177	10,671	10,726	10,726	11,333

GENERATING CAPABILITY BY REGION

WSCC—AZ-NM (MW)

TABLE 9

	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
COAL	6,210	6,133	6,828	7,029	7,506	7,588	7,742	7,938	8,618	8,618	8,958
NUCLEAR	0	0	993	1,838	2,756	2,756	2,756	2,756	2,756	2,756	2,756
HYDRO	665	662	662	662	662	662	662	662	662	662	662
PUMPED STORAGE	137	137	137	137	137	137	137	137	137	137	137
GEOTHERMAL	0	0	0	0	0	5	5	5	5	5	5
OIL—STEAM	0	0	0	0	0	0	0	0	0	0	0
OIL—CT	134	134	134	134	134	134	134	134	134	134	134
OIL—CC	0	0	0	0	0	0	0	0	0	0	0
GAS—STEAM	0	0	0	0	0	0	0	0	0	0	0
GAS—CT	0	0	0	0	0	0	0	0	0	0	0
GAS—CC	0	0	0	0	0	0	0	0	0	0	0
DUAL FUEL—STEAM	2,757	2,711	2,624	2,525	2,448	2,366	2,366	2,366	2,474	2,474	2,474
DUAL FUEL—CT	1,351	1,349	1,349	1,349	1,349	1,349	1,349	1,349	1,349	1,449	1,449
DUAL FUEL—CC	843	839	839	839	839	839	839	839	839	839	839
OTHER	0	0	0	0	0	0	0	0	0	0	0
TOTAL	12,097	11,965	13,566	14,513	15,831	15,836	15,990	16,186	16,974	17,074	17,414

GENERATING CAPABILITY BY REGION
WSCC—CA-SNV *(MW)*

TABLE 9

	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
COAL	4,074	4,171	3,960	4,508	5,156	5,209	5,059	4,876	5,320	5,789	5,812
NUCLEAR	2,411	4,597	6,047	6,388	6,742	6,744	6,744	6,744	6,744	6,744	6,744
HYDRO	9,532*	7,981	8,040	8,090	8,288	8,570	8,619	8,772	8,829	8,875	8,980
PUMPED STORAGE	2,433	3,607	3,607	3,653	3,649	3,678	3,657	3,692	3,693	3,684	3,684
GEOTHERMAL	1,247	1,406	1,475	1,922	1,981	2,187	2,321	2,580	2,839	2,859	2,859
OIL—STEAM	375	375	375	375	375	375	375	375	375	375	375
OIL—CT	554	564	564	564	564	564	564	564	564	564	564
OIL—CC	0	0	0	0	0	0	0	0	0	0	0
GAS—STEAM	284	284	388	388	447	447	447	447	447	447	447
GAS—CT	128	128	128	128	128	128	128	128	128	128	128
GAS—CC	0	0	0	0	0	0	0	0	0	0	0
DUAL FUEL—STEAM	20,945	20,562	19,897	19,743	19,129	18,952	18,772	18,626	18,296	17,903	17,671
DUAL FUEL—CT	1,443	1,411	1,421	1,477	1,477	1,477	1,477	1,478	1,478	1,478	1,478
DUAL FUEL—CC	1,110	1,152	1,152	1,152	1,152	1,152	1,152	1,152	1,152	1,152	1,152
OTHER	468	708	957	1,438	1,602	1,672	1,907	2,281	2,585	3,033	3,229
TOTAL	45,010	46,946	48,011	47,326	50,690	51,155	51,222	51,715	52,450	53,031	53,123

GENERATING CAPABILITY BY REGION
WSCC-CANADA *(MW)*

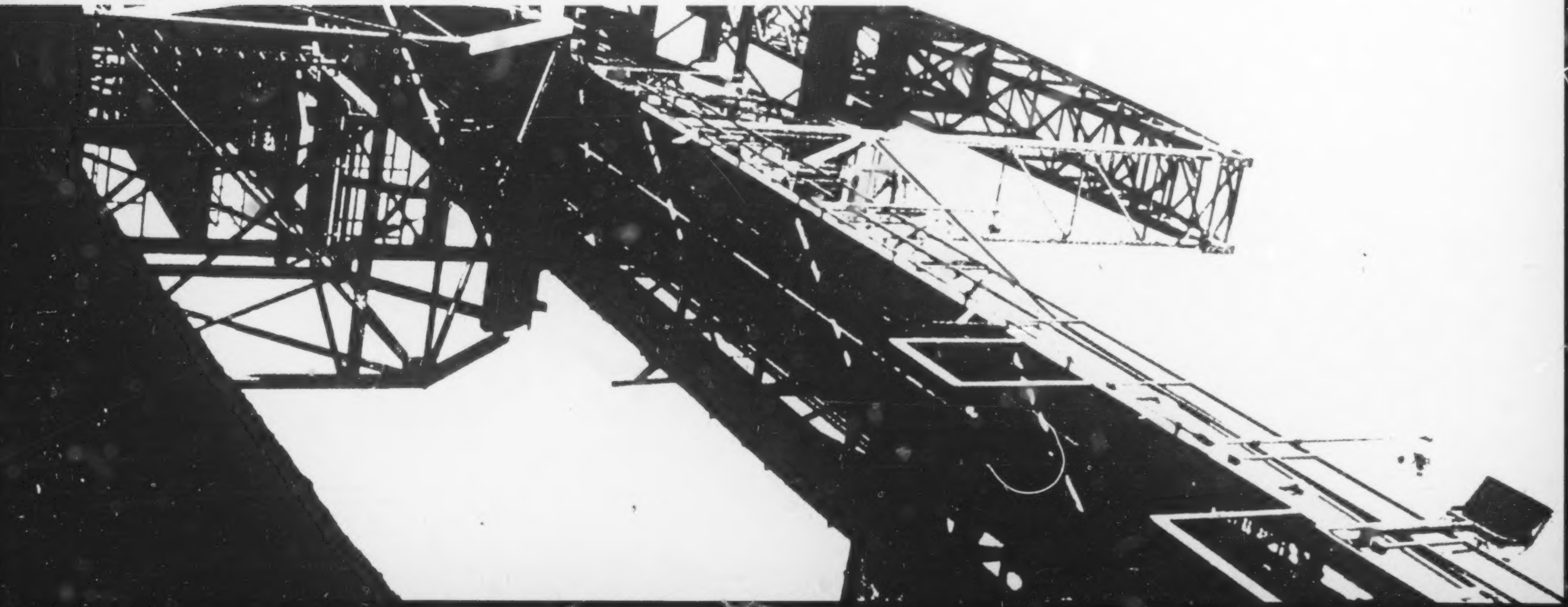
TABLE 9

	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
COAL	3,716	4,160	4,160	4,526	4,892	5,278	5,664	5,664	5,904	6,264	6,624
NUCLEAR	0	0	0	0	0	0	0	0	0	0	0
HYDRO	9,141	10,491	10,941	10,941	10,941	10,941	10,941	10,941	10,941	10,941	10,941
PUMPED STORAGE	0	0	0	0	0	0	0	0	0	0	0
GEOTHERMAL	0	0	0	0	0	0	0	0	0	0	0
OIL—STEAM	0	0	0	0	0	0	0	0	0	0	0
OIL—CT	179	179	179	179	179	179	176	176	176	176	176
OIL—CC	0	0	0	0	0	0	0	0	0	0	0
GAS—STEAM	966	966	966	966	966	966	966	966	888	888	888
GAS—CT	100	100	100	100	100	100	100	100	100	100	100
GAS—CC	0	0	0	0	0	0	0	0	0	0	0
DUAL FUEL—STEAM	900	900	900	900	900	900	900	900	900	900	900
DUAL FUEL—CT	303	303	303	303	303	303	303	257	228	228	228
DUAL FUEL—CC	0	0	0	0	0	0	0	0	0	0	0
OTHER	0	0	0	0	0	0	0	0	0	0	0
TOTAL	15,305	17,099	17,549	17,915	18,281	18,667	19,050	19,004	19,137	19,497	19,857

CONTINUED

FOOTNOTES TO TABLE 9

a/ Adverse hydro conditions are routinely assumed for forecast years by most systems. Data for actual year can be greater than for forecast years if median hydro occurred.
b/ Includes cogeneration, refuse, conservation, load management, and other supply options.
c/ Coal/oil, coal/natural gas, oil/natural gas. Several of these facilities, however, would require the issuance of various permits and would incur some delay before conservation from one fuel to the other.
d/ Oil/natural gas, kerosene/natural gas. Several of these facilities, however, would require the issuance of various permits and would incur some delay before conservation from one fuel to the other.
e/ Includes #6 fuel oil, cogeneration, refinery gas, petroleum coke and oil.
f/ Wood.
g/ Wood-burning steam units.
h/ Refuse and wood.
i/ Median hydro data is reported by New England.
j/ Includes 105 MW firm purchase by SCPSA.
k/ Since the subregional peak demands may occur in different months than the coincident total WSCC (U.S.) peak demand, the sum of the individual subregional installed capabilities based on those peak demands may not equal the WSCC (U.S.) total.



Annual Energy Generation by Fuel

The *Annual Energy Generation* data include the total annual energy projected to be generated, categorized by principal fuel sources. Also included is a tabulation of scheduled energy imports and exports to provide a tabulated total net energy available for load.

The Electric Generation data presented in Table 10 are based on the assumption that the plans for Generating Capability, as tabulated for the various fuel types in Table 8, will be realized on schedule.

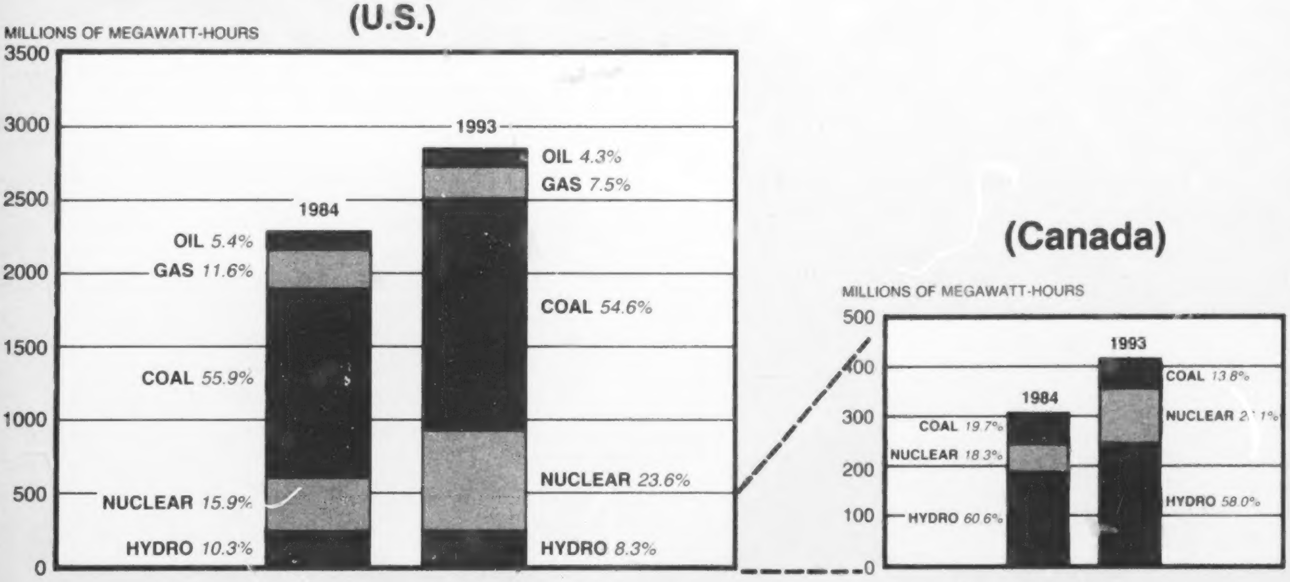
U.S. utilities are forecasting net electrical energy requirements for 1984-1993 which, in the aggregate, result in an average annual growth rate of 2.7%. Last year's ten-year forecast rate in the U.S. was 3.2%. Canadian utilities are forecasting a growth rate for 1984-1993 of 3.1%, down from the 3.7% ten-year rate forecast last year in Canada.

Even though the NERC Regions are projecting a lower growth rate than in past years, based on this year's projections the industry will require 30% more electric energy ten years from now. The figures below show, by fuel types, the growth of net generation expected to provide this energy in the U.S. and Canada in 1993.

Share of Actual Net Generation, 1983

	U.S.	CAN.
OTHER	0.6%	0.2%
OIL	5.9%	0.6%
GAS	11.6%	0.7%
COAL	54.8%	21.9%
NUCLEAR	12.9%	15.0%
HYDRO	14.2%	61.5%

NERC Energy Generation By Fuel



ANNUAL ENERGY GENERATION BY FUEL

NET ENERGY FOR LOAD (Thousand MWh)

TABLE 10

REGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
ECAR	364,501	370,800	383,900	394,600	404,700	416,500	426,600	434,700	443,300	451,800	459,900
ERCOT	173,372	185,020	191,831	197,374	206,175	214,224	223,378	232,977	242,531	252,181	262,535
MAAC	179,990	180,491	184,345	187,366	190,168	194,020	197,320	200,735	204,383	207,931	211,483
MAIN	165,974	164,901	170,168	174,854	179,904	183,623	187,533	191,390	195,152	198,954	202,789
MAPP—U.S.	102,526	104,764	108,308	112,169	115,599	119,172	122.390	125,746	128,574	131,940	135,138
NPCC—U.S.	210,815	211,743	214,724	217,532	221,409	225,966	230,912	235,186	239,781	245,372	250,626
SERC	490,899	501,721	525,733	542,748	561,472	576,164	591,681	607,757	623,416	640,066	655,883
SPP	217,688	222,503	230,312	236,640	243,839	251,102	258.718	266,278	274,537	283,073	290,555
WSCC—U.S.	435,868	448,200	462,075	477,521	490,456	504,217	517,532	530,536	544,295	558,181	570,941
NERC—U.S.	2,341,633	2,390,143	2,471,396	2,540,804	2,613,722	2,684,988	2.756,064	2,825,305	2,895,969	2,969,498	3,039,850
MAPP—CANADA	24,108	24,359	24,801	25,698	26,740	27,602	28,383	29,289	30,071	30,931	31,770
NPCC—CANADA	214,939	221,852	230,409	239,134	246,443	253,722	260,310	267,328	273,648	280,480	286,685
WSCC—CANADA	63,281	68,245	71,625	74,954	77,244	80,759	83,843	86,458	89,280	92,312	95,337
NERC—CANADA	302,328	314,456	326,835	339,786	350,427	362,083	372,536	383,075	392,999	403,723	413,792

SUBREGION	ACTUAL 1983	1984	1985	1986	. 1987	1988	1989	1990	1991	1992	1993
NEW YORK	122,088	120,780	122,582	124,162	126,100	127,920	129,863	131,100	132,682	134,947	137,263
NEW ENGLAND	88,727	90,963	92,142	93,370	95,309	98,046	101,049	104,086	107,099	110,425	113,363
NPCC—U.S.	210,815	211,743	214,724	217,532	221,409	225,966	230,912	235,186	239,781	245,372	250,626
NEW BRUNSWICK	8,821	9,238	9,656	10,041	10,383	10,680	10,961	11,222	11,484	11,745	12,003
ONTARIO	106,071	108,993	112,567	116,305	119,888	123,492	126,221	129,299	131,585	134,287	136,565
QUÉBEC	100,047	103,621	108,186	112,788	116,172	119,550	123,128	126,807	130,579	134,448	138,117
NPCC—CANADA	214,939	221,852	230,409	239,134	246,443	253,722	260,310	267,328	273,648	280,480	286,685
FLORIDA	99,820	102,916	108,657	112,230	115,945	119,721	123,458	127,319	131,104	135,958	139,743
SOUTHERN	113,587	115,461	118,776	122,139	125,328	128,612	131,919	135,419	139,087	142,793	146,360
TVA	114,015	116,756	127,151	133,331	140,655	143,699	146,820	150,018	152,539	154,757	157,501
VACAR	163,477	166,588	171,149	175,048	179,544	184,132	189,484	195,001	200,686	206,558	212,279
SERC	490,899	501,721	525,733	542,748	561,472	576,164	591,681	607,757	623,416	640,066	655,883
GROUP A	102,562	102,849	105,622	107,433	110,294	113,430	116,289	119.030	121,994	125,074	127,613
GROUP B	68,939	72,896	77,035	79,707	82,507	85,334	88.253	91,429	94,971	98,588	101,641
GROUP C	46,187	46,758	47,655	49,500	51,038	52,338	54,176	55,819	57,572	59,411	61,301
SPP	217,688	222,503	230,312	236,640	243,839	251,102	258,718	266,278	274,537	283,073	290,555
NWPP—U.S.	172,006	179,472	184,438	189,603	194,503	200,472	205,694	210,382	215,583	220,830	224,930
RMPA	31,805	34,051	35,048	36,562	38,330	39,956	41,429	42,870	44,143	45,641	47,166
AZ-NM	44,082	45,544	48,318	53,786	56,343	58,567	60,768	62,841	64,951	67,230	69,429
CA-SNV	187,975	189,133	194,271	197,570	201,280	205,222	209,641	214,443	219,618	224,480	229,416
WSCC—U.S.	435,868	448,200	462,075	477,521	490,456	504,217	517,532	530,536	544,295	558,181	570,941

ANNUAL ENERGY GENERATION BY FUEL

ENERGY IMPORTS MINUS EXPORTS (Thousand MWh)

TABLE 10

REGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
ECAR	-25,697	-23,889	-14,698	-13,355	-13,372	-12,029	-10,686	-8,261	-4,093	-2,367	1,539
ERCOT [a]	11,448	13,769	19,181	23,010	23,455	23,946	23,617	23,585	23,670	23,270	23,151
MAAC	22,514	24,647	23,537	21,980	22,661	22,647	22,916	22,252	22,733	23,005	22,941
MAIN	9,646	4,689	940	-597	-1,611	-1,268	-809	-1,184	-133	730	754
MAPP—U.S.	-1,484	1,836	-2,521	-3,285	-3,258	-4,264	-1,977	-1,331	-1,007	-361	-446
NPCC—U.S.	22,675	22,002	22,547	23,490	26,551	26,455	26,378	26,906	33,524	34,873	34,800
SERC	5,912	1,790	-8,352	-10,488	-9,001	-8,035	-7,490	-2,025	-1,034	3,720	8,048
SPP	10,740	8,490	13,810	14,382	13,623	14,113	13,252	11,176	10,204	5,428	1,509
WSCC—U.S.	-1,200	29,189	26,701	30,783	24,601	22,414	22,609	23,043	26,453	28,365	29,447
NERC—U.S.	54,554	82,523	81,145	85,920	83,649	83,979	87,810	94,161	110,317	116,663	121,743
MAPP—CANADA	-7,769	-7,413	-6,621	-6,371	-5,810	-5,242	-4,455	-3,663	-3,551	-4,526	-6,734
NPCC—CANADA [b]	3,952	9,782	4,256	-69	-6,175	-11,004	-8,835	-6,106	-3,913	-4,981	-4,664
WSCC—CANADA	-2,361	0	0	-318	-318	-318	-318	-318	-318	-318	-318
NERC—CANADA	-6,178	2,369	-2,365	-6,758	-12,303	-16,564	-13,608	-10,087	-7,782	-9,825	-11,716

SUBREGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
NEW YORK [c]	12,193	12,212	12,970	15,051	15,497	15,546	16,195	16,245	16,295	16,345	16,394
NEW ENGLAND	10,482	9,790	9,577	8,439	11,054	10,909	10,183	10,661	17,229	18,528	18,406
NPCC—U.S.	22,675	22,002	22,547	23,490	26,551	26,455	26,378	26,906	33,524	34,873	34,800
NEW BRUNSWICK	-2,072	-1,062	-501	675	700	907	1,100	1,429	1,422	1,547	1,690
ONTARIO	-5,874	-5,306	-4,908	-5,609	-5,540	-8,183	-7,700	-8,500	-8,500	-11,000	-10,500
QUÉBEC [b]	11,898	16,150	9,665	4,865	-1,335	-3,728	-2,235	965	3,165	4,472	4,146
NPCC—CANADA	3,952	9,782	4,256	-69	-6,175	-11,004	-8,835	-6,106	-3,913	-4,981	-4,664
FLORIDA	12,793	13,849	18,895	18,282	14,693	14,436	14,443	14,843	15,824	15,706	10,314
SOUTHERN	-11,658	-15,263	-27,555	-29,144	-24,639	-23,920	-24,302	-24,188	-24,282	-19,765	-10,280
TVA	-2,892	5	229	253	266	243	175	351	356	362	419
VACAR	7,669	3,199	79	121	679	1,206	2,194	6,969	7,068	7,417	7,595
SERC	5,912	1,790	-8,352	-10,488	-9,001	-8,035	-7,490	-2,025	-1,034	3,720	8,048
GROUP A	22,904	18,687	20,543	21,621	19,724	19,964	17,761	16,889	15,702	10,938	6,986
GROUP B	-9,984	-7,567	-4,206	-4,251	-3,272	-3,014	-2,596	-4,356	-4,259	-4,129	-4,033
GROUP C	-2,180	-2,630	-2,527	-2,988	-2,829	-2,837	-1,913	-1,357	-1,239	-1,381	-1,444
SPP	10,740	8,490	13,810	14,382	13,623	14,113	13,252	11,176	10,204	5,428	1,509
NWPP—U.S.	-28,196	-1,456	-851	1,386	1,011	26	-162	-175	-183	-195	-201
RMPA	-6,718	-4,488	-3,353	-3,487	-3,277	-2,987	-2,914	-2,988	-2,855	-2,762	-2,411
AZ-NM	-2,123	-4,759	-9,466	-8,453	-10,293	-11,029	-11,637	-10,494	-8,416	-7,627	-6,358
CA-SNV	35,837	39,892	40,371	41,337	37,160	36,404	37,322	36,700	37,907	38,949	38,417
WSCC—U.S.	-1,200	29,189	26,701	30,783	24,601	22,414	22.609	23,043	26,453	28,365	29,447

CONTINUED

ANNUAL ENERGY GENERATION BY FUEL
TOTAL NET [d] ***GENERATION*** (Thousand MWh)

TABLE 10

REGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
ECAR	390,198	394,689	398,598	407,955	418,072	428,529	437,286	442,961	447,393	454,167	458,361
ERCOT	161,924	171,251	172,650	174,364	182,720	190,278	199,761	209,392	218,861	228,911	239,384
MAAC	157,476	155,844	160,808	165,386	167,507	171,373	174,404	178,483	181,650	184,926	188,542
MAIN	156,328	160,212	169,228	175,451	181,515	184,891	188,342	192,574	195,285	198,224	202,035
MAPP—U.S.	104,010	102,928	110,829	115,454	118,857	123,436	124,367	127,077	129,581	132,301	135,584
NPCC—U.S.	188,140	189,741	192,177	194,042	194,858	199,511	204,534	208,280	206,257	210,499	215,826
SERC	484,987	499,931	534,085	553,236	570,473	584,199	599,171	609,782	624,450	636,346	647,835
SPP	206,948	214,013	216,502	222,258	230,216	236,989	245,466	255,102	264,333	277,645	289,046
WSCC—U.S.	437,068	419,011	435,374	446,738	465,855	481,803	494,923	507,493	517,842	529,816	541,494
NERC—U.S.	2,287,079	2,307,620	2,390,251	2,454,884	2,530,073	2,601,009	2,668,254	2,731,144	2,785,652	2,852,835	2,918,107
MAPP—CANADA	31,877	31,772	31,422	32,069	32,550	32,844	32,838	32,952	33,622	35,457	38,504
NPCC—CANADA	210,987	212,070	226,153	239,203	252,618	264,726	269,145	273,434	277,561	285,461	291,349
WSCC—CANADA	65,642	68,245	71,625	75,272	77,562	81,077	84,161	86,776	89,598	92,630	95,655
NERC—CANADA	308,506	312,087	329,200	346,544	362,730	378,647	386,144	393,162	400,781	413,548	425,508

SUBREGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
NEW YORK	109,895	108,568	109,612	109,111	110,603	112,374	113,668	114,855	116,387	118,602	120,869
NEW ENGLAND	78,245	81,173	82,565	84,931	84,255	87,137	90,866	93,425	89,870	91,897	94,957
NPCC—U.S.	188,140	189,741	192,177	194,042	194,858	199,511	204,534	208,280	206,257	210,499	215,826
NEW BRUNSWICK	10,893	10,300	10,157	9,366	9,683	9,773	9,861	9,793	10,062	10,198	10,313
ONTARIO	111,945	114,299	117,475	121,914	125,428	131,675	133,921	137,799	140,085	145,287	147,065
QUÉBEC	88,149	87,471	98,521	107,923	117,507	123,278	125,363	125,842	127,414	129,976	133,971
NPCC—CANADA	210,987	212,070	226,153	239,203	252,618	264,726	269,145	273,434	277,561	285,461	291,349
FLORIDA	87,027	89,067	89,762	93,948	101,252	105,285	109,015	112,476	115,280	120,252	129,429
SOUTHERN	125,245	130,724	146,331	151,283	149,967	152,532	156,221	159,607	163,369	162,558	156,640
TVA	116,907	116,751	126,922	133,078	140,389	143,456	146,645	149,667	152,183	154,395	157,082
VACAR	155,808	163,389	171,070	174,927	178,865	182,926	187,290	188,032	193,618	199,141	204,684
SERC	484,987	499,931	534,085	553,236	570,473	584,199	599,171	609,782	624,450	636,346	647,835
GROUP A	79,658	84,162	85,079	85,812	90,570	93,466	98,528	102,141	106,292	114,136	120,627
GROUP B	78,923	80,463	81,241	83,958	85,779	88,348	90,849	95,785	99,230	102,717	105,674
GROUP C	48,367	49,388	50,182	52,488	53,867	55,175	56,089	57,176	58,811	60,792	62,745
SPP	206,948	214,013	216,502	222,258	230,216	236,989	245,466	255,102	264,333	277,645	289,046
NWPP—U.S.	200,202	180,928	185,289	188,217	193,492	200,446	205,856	210,557	215,766	221,025	225,131
RMPA	38,523	38,539	38,401	40,049	41,607	42,943	44,343	45,858	46,998	48,403	49,577
AZ-NM	46,205	50,303	57,704	62,239	66,636	69,596	72,405	73,335	73,367	74,857	75,787
CA-SNV	152,138	149,241	153,900	156,233	164,120	168,818	172,319	177,743	181,711	185,531	190,999
WSCC—U.S.	437,068	419,011	435,374	446,738	465,855	481,803	494,923	507,493	517,842	529,816	541,494

ANNUAL ENERGY GENERATION BY FUEL
COAL (Thousand MWh)

TABLE 10

REGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
ECAR	360,896	365,704	359,036	362,153	364,586	370,950	379,614	380,341	384,303	390,576	394,456
ERCOT	70,113	67,940	68,086	72,699	78,555	81,640	92,406	97,435	107,373	115,085	127,090
MAAC	94,310	89,976	85,928	84,066	85,267	85,072	87,178	81,772	84,155	86,255	87,204
MAIN	113,773	109,123	104,389	101,985	98,444	102,343	105,362	106,475	108,344	110,792	112,277
MAPP—U.S.	67,203	68,213	73,420	76,032	79,472	83,972	85,639	88,353	90,321	93,103	96,642
NPCC—U.S.	32,683	33,774	36,899	39,886	46,759	53,932	56,727	56,741	57,659	58,184	58,082
SERC	281,263	301,906	329,846	333,906	332,620	338,878	334,762	345,520	353,457	362,974	370,188
SPP	103,916	108,159	112,822	119,599	124,026	127,724	128,301	133,263	138,484	145,517	153,651
WSCC—U.S.	128,847	144,800	154,115	156,907	166,487	173,828	177,598	178,139	182,876	188,716	191,520
NERC—U.S.	1,253,004	1,289,595	1,324,541	1,347,233	1,376,216	1,418,339	1,447,587	1,468,039	1,506,972	1,551,202	1,591,110
MAPP—CANADA	7,454	7,362	7,454	6,947	7,350	7,600	7,888	8,169	8,442	8,741	9,152
NPCC—CANADA	37,186	29,385	22,782	19,616	17,279	14,374	12,781	14,985	15,234	12,656	10,484
WSCC—CANADA	22,883	24,793	26,384	28,293	29,580	31,924	33,966	34,784	35,999	37,538	39,107
NERC—CANADA	67,523	61,540	56,620	54,856	54,209	53,898	54,635	57,938	59,675	58,935	58,743

SUBREGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
NEW YORK	20,606	20,674	22,399	25,086	30,559	35,132	36,327	36,341	36,659	37,384	37,282
NEW ENGLAND	12,077	13,100	14,500	14,800	16,200	18,800	20,400	20,400	21,000	20,800	20,800
NPCC—U.S.	32,683	33,774	36,899	39,886	46,759	53,932	56,727	56,741	57,659	58,184	58,082
NEW BRUNSWICK	1,339	1,339	1,337	1,323	1,324	1,327	1,329	1,332	1,333	1,324	1,352
ONTARIO	35,847	28,046	21,445	18,293	15,955	13,047	11,452	13,653	13,901	11,332	9,132
QUÉBEC	0	0	0	0	0	0	0	0	0	0	0
NPCC—CANADA	37,186	29,385	22,782	19,616	17,279	14,374	12,781	14,985	15,234	12,656	10,484
FLORIDA	23,384	30,347	41,328	41,989	46,017	49,857	51,595	52,311	53,252	56,756	58,405
SOUTHERN	97,960	106,541	119,801	123,080	115,981	115,434	113,582	117,144	121,972	119,961	114,514
TVA	68,874	70,446	74,681	81,312	80,357	81,142	80,279	81,884	79,736	81,501	84,181
VACAR	91,045	94,572	94,036	87,525	90,265	92,445	89,306	94,181	98,497	104,756	113,088
SERC	281,263	301,906	329,846	333,906	332,620	338,878	334,762	345,520	353,457	362,974	370,188
GROUP A	22,427	20,883	24,634	26,120	26,783	26,959	26,796	27,290	27,745	29,668	33,475
GROUP B	36,906	40,735	44,568	48,120	51,493	53,578	54,201	57,572	60,866	63,817	67,046
GROUP C	44,583	46,541	43,620	45,359	45,750	47,187	47,304	48,401	49,873	52,032	53,130
SPP	103,916	108,159	112,822	119,599	124,026	127,724	128,301	133,263	138,484	145,517	153,651
NWPP—U.S.	40,651	49,968	57,479	56,465	61,357	63,474	63,362	62,652	64,410	65,493	65,526
RMPA	24,114	26,849	27,670	29,297	30,386	31,675	33,046	34,578	35,866	37,217	38,515
AZ-NM	38,677	41,717	43,790	44,603	45,266	47,153	49,354	49,646	49,839	50,913	51,638
CA-SNV	25,405	26,266	25,176	26,542	29,478	31,526	31,836	31,263	32,767	35,093	35,841
WSCC—U.S.	128,847	144,800	154,115	156,907	166,487	173,828	177,598	178,139	182,876	188,716	191,520

ANNUAL ENERGY GENERATION BY FUEL

NUCLEAR (Thousand MWh)

TABLE 10

REGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
ECAR	25,610	25,669	35,997	42,677	50,611	54,879	54,939	59,978	60,423	60,787	61,086
ERCOT	0	243	4,263	7,008	18,383	20,051	24,979	26,632	26,851	27,331	27,479
MAAC	29,756	44,120	55,066	64,860	66,504	69,961	70,506	82,321	82,270	82,200	84,254
MAIN	35,121	46,395	60,393	69,432	79,223	78,515	78,606	81,198	81,435	81,267	83,009
MAPP—U.S.	22,539	20,335	23,345	25,330	25,228	25,386	24,664	24,618	25,166	24,948	24,813
NPCC—U.S.	42,777	43,350	50,069	58,857	67,884	70,344	73,903	74,697	81,696	82,004	82,198
SERC	119,260	132,848	144,890	157,783	174,136	177,045	193,087	193,856	195,082	197,045	195,452
SPP	7,582	14,299	24,631	27,964	31,831	32,520	36,515	38,355	40,812	41,274	40,481
WSCC—U.S.	12,595	38,447	52,705	62,809	71,070	72,031	73,772	79,889	85,357	87,148	85,814
NERC—U.S.	295,240	365,706	451,359	516,720	584,870	600,732	631,051	661,544	679,092	684,004	684,586
MAPP—CANADA	0	0	0	0	0	0	0	0	0	0	0
NPCC—CANADA	46,410	57,115	67,949	75,626	81,858	91,079	96,008	97,296	99,362	107,085	111,114
WSCC—CANADA	0	0	0	0	0	0	0	0	0	0	0
NERC—CANADA	46,410	57,115	67,949	75,626	81,858	91,079	96,008	97,296	99,362	107,085	111,114

SUBREGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
NEW YORK	16,511	18,550	22,369	24,957	31,484	31,944	31,903	32,697	32,696	32,804	32,698
NEW ENGLAND	26,266	24,800	27,700	33,900	36,400	38,400	42,000	42,000	49,000	49,200	49,500
NPCC—U.S.	42,777	43,350	50,069	58,857	67,884	70,344	73,903	74,697	81,696	82,004	82,198
NEW BRUNSWICK	4,759	4,401	4,401	4,217	4,401	4,401	4,401	4,217	4,401	4,401	4,401
ONTARIO	39,475	49,445	59,883	67,218	73,257	82,478	87,407	88,879	90,761	98,484	102,513
QUÉBEC	2,176	3,269	3,665	4,191	4,200	4,200	4,200	4,200	4,200	4,200	4,200
NPCC—CANADA	46,410	57,115	67,949	75,626	81,858	91,079	96,008	97,296	99,362	107,085	111,114
FLORIDA	15,558	25,862	23,322	26,280	27,655	24,256	26,275	27,550	24,320	26,477	27,661
SOUTHERN	19,018	17,451	19,003	19,929	26,542	29,321	33,987	33,818	32,491	33,809	33,415
TVA	27,921	28,575	33,972	32,659	40,572	42,477	46,470	47,692	52,274	52,409	51,992
VACAR	56,763	60,960	68,593	78,915	79,367	80,991	86,355	84,796	85,997	84,350	82,384
SERC	119,260	132,848	144,890	157,783	174,136	177,045	193,087	193,856	195,082	197,045	195,452
GROUP A	7,582	14,299	20,217	23,501	26,225	27,385	30,708	32,547	34,921	35,544	34,338
GROUP B	0	0	0	0	0	0	0	0	0	0	0
GROUP C	0	0	4,414	4,463	5,606	5,135	5,807	5,808	5,891	5,730	6,143
SPP	7,582	14,299	24,631	27,964	31,831	32,520	36,515	38,355	40,812	41,274	40,481
NWPP—U.S.	7,596	18,314	16,248	17,862	17,976	18,086	18,694	25,106	30,932	32,334	30,345
RMPA	787	788	1,021	1,075	1,404	1,221	1,171	1,304	1,171	1,308	1,175
AZ-NM	0	299	5,954	10,274	15,327	16,134	16,361	16,764	16,625	16,815	16,762
CA-SNV	4,212	19,046	29,482	33,598	36,363	36,590	37,546	36,715	36,629	36,691	37,532
WSCC—U.S.	12,595	38,447	52,705	62,809	71,070	72,031	73,772	79,889	85,357	87,148	85,814

ANNUAL ENERGY GENERATION BY FUEL
HYDRO• (Thousand MWh)

TABLE 10

REGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
ECAR	2,432	2,432	2,432	2,432	2,432	2,432	2,432	2,432	2,432	2,432	2,432
ERCOT	206	303	303	312	312	312	312	312	312	312	312
MAAC	3,531	3,556	3,655	3,716	3,716	3,792	3,792	3,792	3,792	3,792	3,792
MAIN	2,559	2,275	2,277	2,284	2,315	2,323	2,323	2,322	2,322	2,322	2,322
MAPP—U.S.	13,724	13,910	13,561	13,562	13,557	13,566	13,504	13,513	13,519	13,520	13,519
NPCC—U.S.	32,038	28,603	28,807	28,860	28,851	28,979	29,076	29,317	29,430	29,595	29,594
SERC	34,063	29,139	29,183	29,285	29,383	29,712	31,963	31,963	31,963	31,991	32,076
SPP	7,412	5,580	5,654	5,654	5,654	5,654	5,654	5,654	5,654	5,654	5,654
WSCC—U.S.	228,883•	152,431	148,141	150,317	150,696	151,214	151,051	151,188	151,103	151,580	151,321
NERC—U.S.	324,848	238,229	234,013	236,422	236,916	237,984	240,107	240,493	240,527	241,198	241,022
MAPP—CANADA	24,065	24,197	23,903	25,077	25,133	25,152	24,830	24,633	25,000	26,520	29,253
NPCC—CANADA	125,534	123,629	133,633	142,773	152,178	157,869	158,468	158,938	160,477	163,079	166,934
WSCC—CANADA	40,264	41,290	43,019	44,720	45,729	46,992	48,205	49,423	50,040	50,379	50,698
NERC—CANADA	189,863	189,116	200,555	212,570	223,040	230,013	231,503	232,994	235,517	239,978	246,885

SUBREGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
NEW YORK	26,934	23,833	23,977	24,020	24,011	24,139	24,236	24,477	24,590	24,755	24,754
NEW ENGLAND[f]	5,104	4,770	4,830	4,840	4,840	4,840	4,840	4,840	4,840	4,840	4,840
NPCC—U.S.	32,038	28,603	28,807	28,860	28,851	28,979	29,076	29,317	29,430	29,595	29,594
NEW BRUNSWICK	2,875	2,638	2,688	2,688	2,688	2,688	2,688	2,688	2,688	2,688	2,688
ONTARIO	36,709	36,790	36,118	36,376	36,189	36,122	34,618	34,618	34,618	34,716	34,618
QUÉBEC	85,950	84,201	94,827	103,709	113,301	119,059	121,162	121,632	123,171	125,675	129,628
NPCC—CANADA	125,534	123,629	133,633	142,773	152,178	157,869	158,468	158,938	160,477	163,079	166,934
FLORIDA	203	227	243	254	254	254	254	254	254	254	254
SOUTHERN	7,481	6,009	6,076	6,166	6,166	6,166	8,417	8,417	8,417	8,417	8,426
TVA	20,194	17,706	17,706	17,706	17,805	18,080	18,080	18,080	18,080	18,108	18,185
VACAR	6,185	5,197	5,158	5,159	5,158	5,212	5,212	5,212	5,212	5,212	5,211
SERC	34,063	29,139	29,183	29,285	29,383	29,712	31,963	31,963	31,963	31,991	32,076
GROUP A	201	[illegible]	167	167	167	167	167	167	167	167	167
GROUP B	7,138	5,353	5,427	5,427	5,427	5,427	5,427	5,427	5,427	5,427	5,427
GROUP C	73	60	60	60	60	60	60	60	60	60	60
SPP	7,412	5,580	5,654	5,654	5,654	5,654	5,654	5,654	5,654	5,654	5,654
NWPP—U.S.	151,182•	110,114	108,233	110,922	110,922	111,254	110,922	110,922	110,922	111,254	110,922
RMPA	13,357	10,553	9,292	9,239	9,266	9,289	9,289	9,289	9,289	9,289	9,289
AZ-NM	3,649	2,626	2,641	2,712	2,707	2,710	2,713	2,714	2,707	2,710	2,713
CA-SNV	60,695•	29,138	27,975	27,444	27,801	27,961	28,127	28,263	28,185	28,327	28,397
WSCC—U.S.	228,883	152,431	148,141	150,317	150,696	151,214	151,051	151,188	151,103	151,580	151,321

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ANNUAL ENERGY GENERATION BY FUEL
PUMPED STORAGE LOAD (–)[g] (Thousand MWh)

TABLE 10

REGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
ECAR	2,507	2,928	2,928	3,665	3,812	3,812	3,812	3,812	3,812	3,812	3,812
ERCOT	0	0	0	0	0	0	0	0	0	0	0
MAAC	2,282	2,449	2,447	2,497	2,623	2,671	2,559	2,434	2,564	2,637	2,656
MAIN	58	132	124	110	89	75	51	84	63	109	76
MAPP—U.S.	0	0	0	0	0	0	0	0	0	0	0
NPCC—U.S.	4,521	2,963	2,966	3,273	3,874	3,830	4,084	4,611	5,134	5,304	5,470
SERC	4,014	3,151	3,882	5,791	5,639	6,086	5,436	5,725	6,475	6,082	6,131
SPP	168	176	184	0	0	0	0	0	0	0	0
WSCC—U.S.[h]	2,237	2,791	2,816	3,091	2,554	2,591	2,380	2,592	2,540	2,699	2,719
NERC—U.S.	15,787	14,590	15,347	18,427	18,591	19,065	18,322	19,258	20,588	20,643	20,864
MAPP—CANADA	0	0	0	0	0	0	0	0	0	0	0
NPCC—CANADA	87	0	0	0	0	0	0	0	0	0	0
WSCC—CANADA	0	0	0	0	0	0	0	0	0	0	0
NERC—CANADA	87	0	0	0	0	0	0	0	0	0	0

SUBREGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
NEW YORK	2,615	1,183	1,086	1,273	1,774	1,730	1,984	2,511	3,034	3,204	3,370
NEW ENGLAND	1,906	1,780	1,880	2,000	2,100	2,100	2,100	2,100	2,100	2,100	2,100
NPCC—U.S.	4,521	2,963	2,966	3,273	3,874	3,830	4,084	4,611	5,134	5,304	5,470
NEW BRUNSWICK	0	0	0	0	0	0	0	0	0	0	0
ONTARIO	87	0	0	0	0	0	0	0	0	0	0
QUÉBEC	0	0	0	0	0	0	0	0	0	0	0
NPCC—CANADA	87	0	0	0	0	0	0	0	0	0	0
FLORIDA	0	0	0	0	0	0	0	0	0	0	0
SOUTHERN	358	668	668	668	668	668	93	179	291	145	53
TVA	1,950	1,673	1,566	1,666	1,594	1,563	1,676	1,726	1,858	1,872	1,898
VACAR	1,706	810	1,648	3,457	3,377	3,855	3,667	3,820	4,326	4,065	4,180
SERC	4,014	3,151	3,882	5,791	5,639	6,086	5,436	5,725	6,475	6,082	6,131
GROUP A	0	0	0	0	0	0	0	0	0	0	0
GROUP B	168	176	184	0	0	0	0	0	0	0	0
GROUP C	0	0	0	0	0	0	0	0	0	0	0
SPP	168	176	184	0	0	0	0	0	0	0	0
NWPP—U.S.	0	0	0	0	0	0	0	0	0	0	0
RMPA	215	825	1,080	1,092	1,141	1,216	1,256	1,232	1,250	1,248	1,250
AZ-NM	240	282	271	293	277	255	273	287	314	296	273
CA-SNV[h]	1,782	1,684	1,465	1,706	1,136	1,120	851	1,073	976	1,155	1,196
WSCC—U.S.	2,237	2,791	2,816	3,091	2,554	2,591	2,380	2,592	2,540	2,699	2,719

ANNUAL ENERGY GENERATION BY FUEL
PUMPED STORAGE OUTPUT (+) (Thousand MWh)

TABLE 10

REGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
ECAR	1,916	1,952	1,952	2,443	2,541	2,541	2.541	2.541	2,541	2,541	2,541
ERCOT	0	0	0	0	0	0	0	0	0	0	0
MAAC	1,557	1,659	1,658	1,692	1.777	1,810	1,734	1,649	1,738	1,787	1,809
MAIN	23	70	66	58	46	41	27	44	33	56	42
MAPP—U.S.	0	0	0	0	0	0	0	0	0	0	0
NPCC—U.S.	3,096	2,098	2,100	2.321	2,742	2,711	2.889	3,293	3,720	3,845	3,959
SERC	3,173	2.403	2,977	4,467	4,351	4,692	4.195	4.399	4,974	4,684	4,712
SPP	105	110	115	0	0	0	0	0	0	0	0
WSCC—U.S.[h]	6,509	4,591	5,005	5,185	4.808	4,894	4,812	5,035	4,910	5,068	5.088
NERC—U.S.	16,379	12,883	13.873	16,166	16,265	16,689	16.198	16,961	17,916	17,981	18,142
MAPP—CANADA	0	0	0	0	0	0	0	0	0	0	0
NPCC—CANADA	0	0	0	0	0	0	0	0	0	0	0
WSCC—CANADA	0	0	0	0	0	0	0	0	0	0	0
NERC—CANADA	0	0	0	0	0	0	0	0	0	0	0

SUBREGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
NEW YORK	1,753	828	760	891	1,242	1,211	1,389	1,793	2,220	2,345	2,459
NEW ENGLAND	1,343	1,270	1,340	1,430	1,500	1,500	1,500	1,500	1,500	1,500	1,500
NPCC—U.S.	3,096	2,098	2,100	2,321	2.742	2.711	2.889	3,293	3,720	3,845	3,959
NEW BRUNSWICK	0	0	0	0	0	0	0	0	0	0	0
ONTARIO	0	0	0	0	0	0	0	0	0	0	0
QUÉBEC	0	0	0	0	0	0	0	0	0	0	0
NPCC—CANADA	0	0	0	0	0	0	0	0	0	0	0
FLORIDA	0	0	0	0	0	0	0	0	0	0	0
SOUTHERN	286	502	502	502	502	502	63	121	220	110	40
TVA	1,536	1,295	1,213	1,290	1,234	1,210	1,298	1,337	1,439	1,450	1,470
VACAR	1,351	606	1,262	2,675	2,615	2,980	2,834	2,941	3,315	3,124	3,202
SERC	3,173	2,403	2,977	4.467	4,351	4,692	4,195	4,399	4,974	4,684	4,712
GROUP A	0	0	0	0	0	0	0	0	0	0	0
GROUP B	105	110	115	0	0	0	0	0	0	0	0
GROUP C	0	0	0	0	0	0	0	0	0	0	0
SPP	105	110	115	0	0	0	0	0	0	0	0
NWPP—U.S.	0	0	0	0	0	0	0	0	0	0	0
RMPA	155	631	816	822	846	884	904	892	901	900	901
AZ-NM	167	197	190	205	194	179	191	201	220	207	191
CA-SNV[h]	6,187	3,763	3,999	4,158	3,768	3,831	3,717	3,942	3,789	3,961	3,996
WSCC—U.S.	6,509	4,591	5,005	5,185	4.808	4.894	4.812	5.035	4,910	5.068	5,088

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ANNUAL ENERGY GENERATION BY FUEL
GEOTHERMAL (Thousand MWh)

TABLE 10

REGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
ECAR	0	0	0	0	0	0	0	0	0	0	0
ERCOT	0	0	0	0	0	0	0	0	0	0	0
MAAC	0	0	0	0	0	0	0	0	0	0	0
MAIN	0	0	0	0	0	0	0	0	0	0	0
MAPP—U.S.	0	0	0	0	0	0	0	0	0	0	0
NPCC—U.S.	0	0	0	0	0	0	0	0	0	0	0
SERC	0	0	0	0	0	0	0	0	0	0	0
SPP	0	0	0	0	0	0	0	0	0	0	0
WSCC—U.S.	6,744	9,542	10,531	12,600	12,965	13,664	14,982	16,013	17,330	17,526	17,715
NERC—U.S.	6,744	9,542	10,531	12,600	12,965	13,664	14,982	16,013	17,330	17,526	17,715
MAPP—CANADA	0	0	0	0	0	0	0	0	0	0	0
NPCC—CANADA	0	0	0	0	0	0	0	0	0	0	0
WSCC—CANADA	0	0	0	0	0	0	0	0	0	0	0
NERC—CANADA	0	0	0	0	0	0	0	0	0	0	0

SUBREGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
NEW YORK	0	0	0	0	0	0	0	0	0	0	0
NEW ENGLAND	0	0	0	0	0	0	0	0	0	0	0
NPCC—U.S.	0	0	0	0	0	0	0	0	0	0	0
NEW BRUNSWICK	0	0	0	0	0	0	0	0	0	0	0
ONTARIO	0	0	0	0	0	0	0	0	0	0	0
QUÉBEC	0	0	0	0	0	0	0	0	0	0	0
NPCC—CANADA	0	0	0	0	0	0	0	0	0	0	0
FLORIDA	0	0	0	0	0	0	0	0	0	0	0
SOUTHERN	0	0	0	0	0	0	0	0	0	0	0
TVA	0	0	0	0	0	0	0	0	0	0	0
VACAR	0	0	0	0	0	0	0	0	0	0	0
SERC	0	0	0	0	0	0	0	0	0	0	0
GROUP A	0	0	0	0	0	0	0	0	0	0	0
GROUP B	0	0	0	0	0	0	0	0	0	0	0
GROUP C	0	0	0	0	0	0	0	0	0	0	0
SPP	0	0	0	0	0	0	0	0	0	0	0
NWPP—U.S.	0	99	131	137	137	138	137	137	137	138	137
RMPA	0	0	0	0	0	0	0	0	0	0	0
AZ-NM	0	0	39	35	35	35	35	35	35	35	35
CA-SNV	6,744	9,443	10,361	12,428	12,793	13,491	14,810	15,841	17,158	17,353	17,543
WSCC—U.S.	6,744	9,542	10,531	12,600	12,965	13,664	14,982	16,013	17,330	17,526	17,715

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ANNUAL ENERGY GENERATION BY FUEL
OIL—STEAM (Thousand MWh)

TABLE 10

REGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
ECAR	1,549	1,520	1,567	1,373	1,273	1,199	1,229	1,135	1,167	1,292	1,292
ERCOT	1,759	388	387	369	367	379	386	388	370	385	402
MAAC	18,981	11,029	9,247	6,060	5,332	5,794	6,014	4,626	5,196	6,214	7,653
MAIN	3,156	1,455	1,346	982	746	826	1,066	1,436	1,847	2,365	2,747
MAPP—U.S.	60	74	104	100	107	100	99	102	112	141	107
NPCC—U.S.	66,356	72,596	66,014	62,718	50,047	44,919	43,904	46,681	36,720	39,982	45,270
SERC	31,480	19,673	12,776	15,620	17,388	22,163	24,767	23,208	28,054	28,362	33,212
SPP	826	9,066	7,013	9,705	11,538	12,401	13,902	14,494	17,607	17,972	20,338
WSCC—U.S.	6,510	6,009	2,558	3,432	3,680	4,186	5,617	5,315	5,647	6,688	7,339
NERC—U.S.	130,677	121,810	101,012	100,359	90,478	91,967	96,984	97,385	96,720	103,401	118,360
MAPP—CANADA	52	28	0	0	0	0	0	0	0	0	0
NPCC—CANADA	1,931	1,923	1,758	1,159	1,276	1,376	1,445	1,567	1,683	1,878	1,999
WSCC—CANADA	0	0	0	0	0	0	0	0	0	0	0
NERC—CANADA	1,983	1,951	1,758	1,159	1,276	1,376	1,445	1,567	1,683	1,878	1,999

SUBREGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
NEW YORK	33,913	34,633	31,064	31,882	23,632	20,197	20,553	20,771	22,065	23,550	26,078
NEW ENGLAND	32,443	37,963	34,950	30,836	26,415	24,722	23,351	25,910	14,655	16,432	19,192
NPCC—U.S.	66,356	72,596	66,014	62,718	50,047	44,919	43,904	46,681	36,720	39,982	45,270
NEW BRUNSWICK	1,920	1,922	1,731	1,138	1,270	1,357	1,443	1,556	1,640	1,785	1,872
ONTARIO	-11[1]	0	0	0	0	0	1	1	2	1	1
QUÉBEC	22	1	27	21	6	19	1	10	41	92	126
NPCC—CANADA	1,931	1,923	1,758	1,159	1,276	1,376	1,445	1,567	1,683	1,878	1,999
FLORIDA	30,127	17,734	10,297	12,929	14,757	19,383	20,592	21,547	26,139	25,618	31,444
SOUTHERN	56	154	242	223	153	130	87	92	126	113	98
TVA	0	0	0	0	0	0	0	0	0	0	0
VACAR	1,297	1,785	2,237	2,468	2,478	2,650	4,088	1,569	1,789	2,631	1,670
SERC	31,480	19,673	12,776	15,620	17,388	22,163	24,767	23,208	28,054	28,362	33,212
GROUP A	428	9,002	6,937	9,626	11,456	12,329	13,823	14,413	17,518	17,874	20,239
GROUP B	178	41	51	56	56	56	56	56	56	56	56
GROUP C	220	23	25	23	26	16	23	25	33	42	43
SPP	826	9,066	7,013	9,705	11,538	12,401	13,902	14,494	17,607	17,972	20,338
NWPP—U.S.	1	0	0	0	0	97	96	96	96	97	96
RMPA	13	25	23	27	32	33	32	49	53	58	64
AZ-NM	349	253	117	31	174	222	279	786	907	937	975
CA-SNV	6,147	5,731	2,418	3,374	3,474	3,834	5,210	4,384	4,591	5,596	6,204
WSCC—U.S.	6,510	6,009	2,558	3,432	3,680	4,186	5,617	5,315	5,647	6,688	7,339

ANNUAL ENERGY GENERATION BY FUEL

OIL—COMBUSTION TURBINE[1] (Thousand MWh)

TABLE 10

REGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
ECAR	132	188	188	188	188	188	188	188	178	186	201
ERCOT	44	4	5	5	5	5	5	5	5	5	5
MAAC	1,330	108	104	30	28	33	41	27	35	54	67
MAIN	70	79	130	53	56	62	56	107	116	206	301
MAPP—U.S.	31	46	100	132	171	176	233	246	261	378	283
NPCC—U.S.	218	362	544	200	254	244	200	150	150	170	170
SERC	651	548	763	930	906	954	1,075	1,012	895	992	1,208
SPP	55	113	72	100	111	66	419	535	1,610	1,674	1,725
WSCC—U.S.	144	365	466	429	435	653	899	995	706	739	833
NERC—U.S.	2,675	1,813	2,372	2,067	2,154	2,381	3,116	3,265	3,956	4,404	4,793
MAPP—CANADA	0	0	0	0	0	0	0	0	0	0	0
NPCC—CANADA	13	18	31	29	27	28	0	0	2	9	17
WSCC—CANADA	0	0	0	0	0	0	0	0	0	0	0
NERC—CANADA	13	18	31	29	27	28	0	0	2	9	17

SUBREGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
NEW YORK	134	262	444	100	179	194	150	100	100	70	70
NEW ENGLAND	84	100	100	100	75	50	50	50	50	100	100
NPCC—U.S.	218	362	544	200	254	244	200	150	150	170	170
NEW BRUNSWICK	0	0	0	0	0	0	0	0	0	0	0
ONTARIO	12	18	29	27	27	28	0	0	0	0	0
QUÉBEC	1	0	2	2	0	0	0	0	2	9	17
NPCC—CANADA	13	18	31	29	27	28	0	0	2	9	17
FLORIDA	344	321	251	264	281	307	319	320	342	343	404
SOUTHERN	203	35	110	191	61	58	14	21	23	24	11
TVA	58	43	189	290	357	371	368	460	375	447	566
VACAR[k]	46	149	213	185	207	218	374	211	155	178	227
SERC	651	548	763	930	906	954	1,075	1,012	895	992	1,208
GROUP A	7	1	1	0	1	1	3	8	15	23	33
GROUP B	1	0	0	0	0	0	313	387	1,408	1,536	1,536
GROUP C	47	112	71	100	110	65	103	140	187	115	156
SPP	55	113	72	100	111	66	419	535	1,610	1,674	1,725
NWPP—U.S.	0	0	0	0	0	211	211	211	211	211	211
RMPA	24	26	25	25	25	26	27	26	26	25	26
AZ-NM	34	22	49	42	33	38	35	75	88	119	114
CA-SNV	86	317	392	362	377	378	626	683	381	384	482
WSCC—U.S.	144	365	466	429	435	653	899	995	706	739	833

ANNUAL ENERGY GENERATION BY FUEL
OIL—COMBINED CYCLE (Thousand MWh)

TABLE 10

REGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
ECAR	26	22	22	22	22	22	22	22	22	22	22
ERCOT	9	4	3	1	1	1	1	1	1	1	1
MAAC	224	60	62	44	35	36	34	12	12	13	40
MAIN	0	0	0	0	0	0	0	0	0	0	0
MAPP—U.S.	0	1	1	1	1	1	1	1	1	1	1
NPCC—U.S.	393	700	700	700	600	600	500	500	600	800	800
SERC	16	0	0	0	0	0	0	0	0	0	0
SPP	0	323	600	80	174	168	326	392	398	459	476
WSCC—U.S.	4	14	36	10	10	10	10	7	7	12	19
NERC—U.S.	672	1,124	1,424	858	843	838	894	935	1,041	1,308	1,359
MAPP—CANADA	0	0	0	0	0	0	0	0	0	0	0
NPCC—CANADA	0	0	0	0	0	0	0	0	0	0	0
WSCC—CANADA	0	0	0	0	0	0	0	0	0	0	0
NERC—CANADA	0	0	0	0	0	0	0	0	0	0	0

SUBREGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
NEW YORK	0	0	0	0	0	0	0	0	0	0	0
NEW ENGLAND	393	700	700	700	600	600	500	500	600	800	800
NPCC—U.S.	393	700	700	700	600	600	500	500	600	800	800
NEW BRUNSWICK	0	0	0	0	0	0	0	0	0	0	0
ONTARIO	0	0	0	0	0	0	0	0	0	0	0
QUÉBEC	0	0	0	0	0	0	0	0	0	0	0
NPCC—CANADA	0	0	0	0	0	0	0	0	0	0	0
FLORIDA	16	0	0	0	0	0	0	0	0	0	0
SOUTHERN	0	0	0	0	0	0	0	0	0	0	0
TVA	0	0	0	0	0	0	0	0	0	0	0
VACAR	0	0	0	0	0	0	0	0	0	0	0
SERC	16	0	0	0	0	0	0	0	0	0	0
GROUP A	0	323	600	80	174	168	326	392	398	459	476
GROUP B	0	0	0	0	0	0	0	0	0	0	0
GROUP C	0	0	0	0	0	0	0	0	0	0	0
SPP	0	323	600	80	174	168	326	392	398	459	476
NWPP—U.S.	0	0	0	0	0	0	0	0	0	0	0
RMPA	0	0	0	0	0	0	0	0	0	0	0
AZ-NM	1	1	23	0	0	0	0	0	0	6	14
CA-SNV	3	13	13	10	10	10	10	7	7	6	5
WSCC—U.S.	4	14	36	10	10	10	10	7	7	12	19

ANNUAL ENERGY GENERATION BY FUEL
GAS—STEAM (Thousand MWh)

TABLE 10

REGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
ECAR	23	20	222	222	121	20	20	20	20	20	20
ERCOT	85,424	97,326	94,408	89,405	80,781	83,154	77,032	80,063	79.208	81,059	79,244
MAAC	8,115	5,987	5,432	5,211	5.019	4,747	4,810	4,163	4,452	4,658	3,916
MAIN	813	274	180	73	31	34	45	43	50	58	67
MAPP—U.S.	298	177	81	109	127	130	120	132	90	96	96
NPCC—U.S.	14,716	10,727	9,265	2,964	786	803	610	417	224	31	31
SERC	15,195	12,067	11,949	9,369	8,727	7,319	5,846	6,124	6,775	6,427	6,578
SPP	82,727	73,159	62,581	55,693	53,366	54,983	56,731	58.822	56,003	61,405	62,994
WSCC—U.S.	43,923	52,100	49,027	43,291	40,998	41,944	40,539	45,271	46,244	45,382	47,807
NERC—U.S.	251,234	251,837	233,145	206,337	189,956	193,134	185,753	195.055	193.066	199,136	200,753
MAPP—CANADA	270	163	50	34	49	67	85	103	120	130	65
NPCC—CANADA	0	0	0	0	0	0	0	0	0	0	0
WSCC—CANADA	1,413	1,496	1,364	1.398	1,389	1,305	1,140	1,690	2,639	3.810	4,649
NERC—CANADA	1,683	1,659	1,414	1,432	1,438	1,372	1.225	1.793	2,759	3,940	4,714

SUBREGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
NEW YORK	12,659	10,727	9,265	2,964	786	803	610	417	224	31	31
NEW ENGLAND [1]	2,057	0	0	0	0	0	0	0	0	0	0
NPCC—U.S.	14,716	10,727	9.265	2,964	786	803	610	417	224	31	31
NEW BRUNSWICK	0	0	0	0	0	0	0	0	0	0	0
ONTARIO	0	0	0	0	0	0	0	0	0	0	0
QUÉBEC	0	0	0	0	0	0	0	0	0	0	0
NPCC—CANADA	0	0	0	0	0	0	0	0	0	0	0
FLORIDA	14,635	11,761	11,451	8,844	8,535	7,152	5,673	5.953	6,366	6,160	6,391
SOUTHERN	283	163	498	521	185	157	162	171	409	267	187
TVA	0	0	0	0	0	0	0	0	0	0	0
VACAR	277	143	0	4	7	10	11	0	0	0	0
SERC	15,195	12,067	11.949	9.369	8,727	7,319	5,846	6,124	6.775	6.427	6,578
GROUP A	48,161	39,002	32,048	25.855	25,326	26,010	26,253	26,873	25,072	29,918	31,388
GROUP B	31,279	31,665	28,661	27,507	25,888	26,427	27,871	29.405	28,361	28,889	28,630
GROUP C	3,287	2,492	1,872	2,331	2,152	2,546	2,607	2,544	2,570	2,598	2,976
SPP	82,727	73,159	62,581	55,693	53,366	54,983	56,731	58,822	56,003	61,405	62,994
NWPP—U.S.	402	1,218	1,195	1,191	1,209	1,221	1,209	1,183	1.174	1,212	1,209
RMPA	256	338	394	324	314	408	447	372	393	362	359
AZ-NM	2,170	3,431	2.777	2,571	1,578	1,734	1,786	1,767	1,685	1,890	1,884
CA-SNV	41,095	47,113	44,661	39,205	37,897	38,581	37,097	41,949	42,992	41,918	44,355
WSCC—U.S.	43,923	52,100	49,027	43,291	40,998	41,944	40,539	45.271	46,244	45,382	47,807

ANNUAL ENERGY GENERATION BY FUEL
GAS—COMBUSTION TURBINE[1] (Thousand MWh)

TABLE 10

REGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
ECAR	121	110	110	110	110	110	113	116	119	123	123
ERCOT	273	124	139	86	78	81	89	107	92	108	152
MAAC	649	216	180	73	59	61	65	42	47	63	67
MAIN	194	236	137	71	59	76	104	169	215	259	339
MAPP—U.S.	149	172	217	188	194	105	107	110	111	114	116
NPCC—U.S.	30	0	0	0	0	0	0	0	0	0	0
SERC	614	321	288	275	271	42	42	50	63	47	56
SPP	185	243	236	247	230	244	279	269	299	332	379
WSCC—U.S.	240	837	944	736	813	1,555	1.725	1,697	1,340	1,420	1,500
NERC—U.S.	2,455	2,259	2.251	1,786	1,814	2,274	2.524	2,560	2,286	2,466	2,732
MAPP—CANADA	36	22	15	11	18	25	35	47	60	66	34
NPCC—CANADA	0	0	0	0	0	0	0	0	0	0	0
WSCC—CANADA	547	666	858	861	864	856	850	861	855	860	855
NERC—CANADA	583	688	873	872	882	881	885	908	915	926	889

SUBREGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
NEW YORK	0	0	0	0	0	0	0	0	0	0	0
NEW ENGLAND[1]	30	0	0	0	0	0	0	0	0	0	0
NPCC—U.S.	30	0	0	0	0	0	0	0	0	0	0
NEW BRUNSWICK	0	0	0	0	0	0	0	0	0	0	0
ONTARIO	0	0	0	0	0	0	0	0	0	0	0
QUÉBEC	0	0	0	0	0	0	0	0	0	0	0
NPCC—CANADA	0	0	0	0	0	0	0	0	0	0	0
FLORIDA	331	27	27	27	30	30	30	29	33	30	32
SOUTHERN	244	237	244	244	235	2	2	2	2	2	2
TVA	0	0	0	0	0	0	0	0	0	0	0
VACAR	39	57	17	4	6	10	10	19	28	15	22
SERC	614	321	288	275	271	42	42	50	63	47	56
GROUP A	20	69	85	73	48	57	62	61	66	93	121
GROUP B	23	24	39	25	23	24	44	24	61	60	60
GROUP C	142	150	112	149	159	163	173	184	172	179	198
SPP	185	243	236	247	230	244	279	269	299	332	379
NWPP—U.S.	1	69	96	0	0	255	254	254	254	255	254
RMPA	26	67	73	81	89	237	290	185	160	97	103
AZ-NM	150	109	183	170	102	137	210	201	186	219	217
CA-SNV	63	592	592	485	622	926	971	1,057	740	849	926
WSCC—U.S.	240	837	944	736	813	1,555	1,725	1,697	1,340	1,420	1,500

ANNUAL ENERGY GENERATION BY FUEL
GAS—COMBINED CYCLE (Thousand MWh)

TABLE 10

REGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
ECAR	0	0	0	0	0	0	0	0	0	0	0
ERCOT	4,096	4,548	4,539	3.834	3,462	3.726	3.547	3,438	3,640	3,611	3,670
MAAC	493	537	561	393	314	328	304	108	112	117	0
MAIN	0	0	0	0	0	0	0	53	119	132	145
MAPP—U.S.	6	0	0	0	0	0	0	2	0	0	7
NPCC—U.S.	304	0	0	0	0	0	0	0	0	0	0
SERC	1,161	1,423	772	729	839	803	886	972	1,020	958	1,161
SPP	3,528	2,485	2,336	2,590	2,660	2,603	2.713	2,692	2,840	2,732	2,651
WSCC—U.S.	2,241	4,258	4,887	3,757	3,361	5,813	5.989	5,640	5,599	5,489	5,669
NERC—U.S.	11,829	13,251	13,095	11,303	10,636	13.273	13,439	12.905	13,330	13,039	13,303
MAPP—CANADA	0	0	0	0	0	0	0	0	0	0	0
NPCC—CANADA	0	0	0	0	0	0	0	0	0	0	0
WSCC—CANADA	0	0	0	0	0	0	0	0	0	0	0
NERC—CANADA	0	0	0	0	0	0	0	0	0	0	0

SUBREGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
NEW YORK	0	0	0	0	0	0	0	0	0	0	0
NEW ENGLAND[1]	304	0	0	0	0	0	0	0	0	0	0
NPCC—U.S.	304	0	0	0	0	0	0	0	0	0	0
NEW BRUNSWICK	0	0	0	0	0	0	0	0	0	0	0
ONTARIO	0	0	0	0	0	0	0	0	0	0	0
QUÉBEC	0	0	0	0	0	0	0	0	0	0	0
NPCC—CANADA	0	0	0	0	0	0	0	0	0	0	0
FLORIDA	1,161	1,423	772	729	839	803	886	972	1,020	958	1,161
SOUTHERN	0	0	0	0	0	0	0	0	0	0	0
TVA	0	0	0	0	0	0	0	0	0	0	0
VACAR	0	0	0	0	0	0	0	0	0	0	0
SERC	1,161	1,423	772	729	839	803	886	972	1,020	958	1,161
GROUP A	339	0	0	0	0	0	0	0	0	0	0
GROUP B	3,174	2,475	2,328	2,587	2,656	2,600	2,701	2,678	2.815	2,696	2,612
GROUP C	15	10	8	3	4	3	12	14	25	36	39
SPP	3,528	2,485	2,336	2,590	2,660	2,603	2.713	2,692	2,840	2,732	2,651
NWPP—U.S.	0	383	767	0	0	2,433	2,418	2.418	2,418	2,433	2,418
RMPA	0	0	0	0	0	0	0	0	0	0	0
AZ-NM	1,248	1,930	2,292	1,889	1.497	1,509	1,714	1,433	1,389	1,302	1,517
CA-SNV	993	1,945	1,828	1,868	1,864	1,871	1,857	1,789	1,792	1,754	1,734
WSCC—U.S.	2,241	4,258	4.887	3,757	3,361	5.813	5,989	5,640	5,599	5,489	5,669

ANNUAL ENERGY GENERATION BY FUEL
OTHER (Thousand MWh)

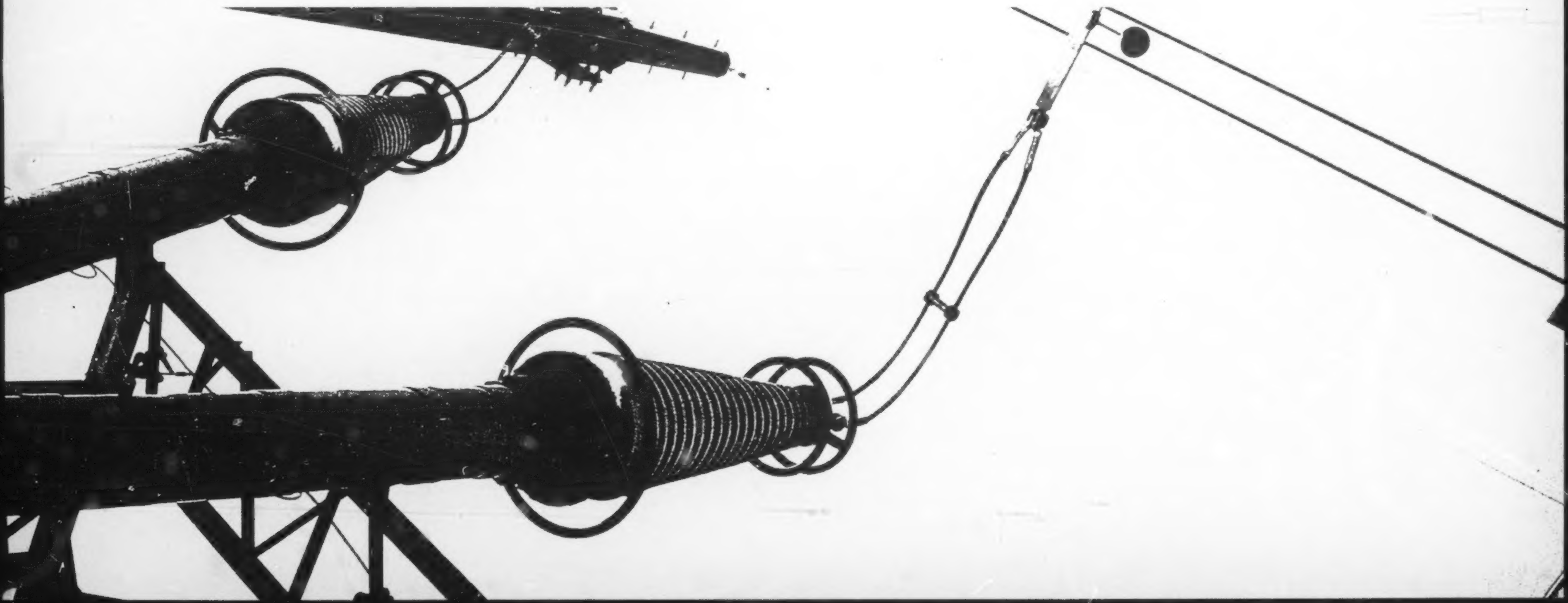
TABLE 10

REGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
ECAR	0	0	0	0	0	0	0	0	0	0	0
ERCOT[m]	0	371	517	645	776	929	1,004	1,011	1,009	1,014	1,029
MAAC	812[n]	1,045[n]	1,362[o]	1.738[o]	2.079[p]	2,410[p]	2.405[p]	2,405[p]	2,405[p]	2,410[p]	2,405[p]
MAIN	677	437	434	623	684	746	804	811	867	876	862
MAPP—U.S.	0	0	0	0	0	0	0	0	0	0	0
NPCC—U.S.	50	494	745	809	809	809	809	1,095	1,192	1,192	1,192
SERC	2,125	2,754	4,523	6.663	7,491	8,677	7,984	8.403	8,642	8,948	9,323
SPP	780	652	626	626	626	626	626	626	626	626	697
WSCC—U.S.[s]	2,665	8,408	9,775	10,356	13,086	14,602	20,309	20.896	19,263	22,747	29,588
NERC—U.S.	7,109	14,161	17,982	21,460	25,551	28,799	33,941	35.247	34,004	37,813	45,096
MAPP—CANADA	0	0	0	0	0	0	0	0	0	0	0
NPCC—CANADA	0	0	0	0	0	0	443	648	803	754	801
WSCC—CANADA	535	0	0	0	0	0	0	18	65	43	346
NERC—CANADA	535	0	0	0	0	0	443	666	868	797	1,147

SUBREGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
NEW YORK[q]	0	244	420	484	484	484	484	770	867	867	867
NEW ENGLAND	50	250	325	325	325	325	325	325	325	325	325
NPCC—U.S.	50	494	745	809	809	809	809	1,095	1,192	1,192	1,192
NEW BRUNSWICK	0	0	0	0	0	0	0	0	0	0	0
ONTARIO	0	0	0	0	0	0	443	648	803	754	801
QUÉBEC	0	0	0	0	0	0	0	0	0	0	0
NPCC—CANADA	0	0	0	0	0	0	443	648	803	754	801
FLORIDA	1,268	1,365	2,071	2,632	2,884	3.243	3,391	3,540	3,554	3,656	3,677
SOUTHERN	72	300	523	1,095	810	1,430	0	0	0	0	0
TVA	274	359	727	1.487	1,658	1.739	1,826	1,940	2,137	2,352	2,586
VACAR	511	730	1,202	1,449	2,139	2,265	2,767	2.923	2,951	2,940	3,060
SERC	2,125	2,754	4,523	6.663	7.491	8,677	7,984	8,403	8,642	8.948	9,323
GROUP A	493	416	390	390	390	390	390	390	390	390	390
GROUP B	287	236	236	236	236	236	236	236	236	236	307
GROUP C	0	0	0	0	0	0	0	0	0	0	0
SPP	780	652	626	626	626	626	626	626	626	626	697
NWPP—U.S.[s]	369	763	1,140	1,640	1,891	3.277	8,553	7.578	5,212	7,598	14,013
RMPA	6	87	167	251	386	386	393	395	395	395	395
AZ-NM	0	0	0	0	0	0	0	0	0	0	0
CA-SNV	2,290	7,558	8,468	8,465	10,809	10,939	11,363	12,923	13,656	14,754	15,180
WSCC—U.S.	2,665	8,408	9,775	10.356	13,086	14,602	20.309	20.896	19,263	22.747	29,588

FOOTNOTES TO TABLE 10

a/ Includes cogeneration, purchased power, and net power interchange.
b/ Although Québec exports electric energy to the U.S., it imports more energy from Churchill Falls in Labrador (Province of Newfoundland), becoming a net *importer* of electric energy. Because Churchill Falls is not a NERC member, this results in NERC-Canada being a net importer in certain years, while Canada as a whole is consistently a net exporter of electric energy to the U.S.
c/ Includes wheeling.
d/ Total generation less pumped storage load.
e/ Adverse hydro conditions are routinely assumed for forecast years by most systems. Data for actual year can be greater than for forecast years if median hydro occurred.
f/ Median hydro.
g/ Deduct energy for pumping from total.
h/ Pumped storage output is greater than input due to pumped storage facilities being in combination with California reservoirs which are not disaggregated.
i/ Energy required to maintain mothballed oil-fired plant.
j/ Includes diesel.
k/ Includes some combination of oil and gas generation for the years 1986-1993.
l/ Gas is burned on an as available, interruptible basis. No firm contracts are anticipated in the future. Future generation from gas has been included in the oil categories.
m/ Includes refuse, conservation, load management, and other supply options.
n/ Includes Beth. Steel and Del. City 1, 2, & 3 (refinery gas, petroleum coke, and oil).
o/ Includes BC & PS Trash Burner units.
p/ Del. City 1, 2, 3 drop out (refinery gas, petroleum coke, and oil).
q/ Solid waste.
r/ Wood and refuse.
s/ The Northwest Power Pool (U.S.) is projecting a deficiency for the years 1988-1993, based on planned resources, assumed adverse hydro conditions, and the forecast energy requirements. To cover the projected deficiency, this category is also used to include the imports that would be necessary from systems outside the Northwest. From 1988 on, the annual amounts of GWh imports included in this category are 1204, 6348, 5254, 2756, 5006, 11291.



Annual Energy Generation *by Region*

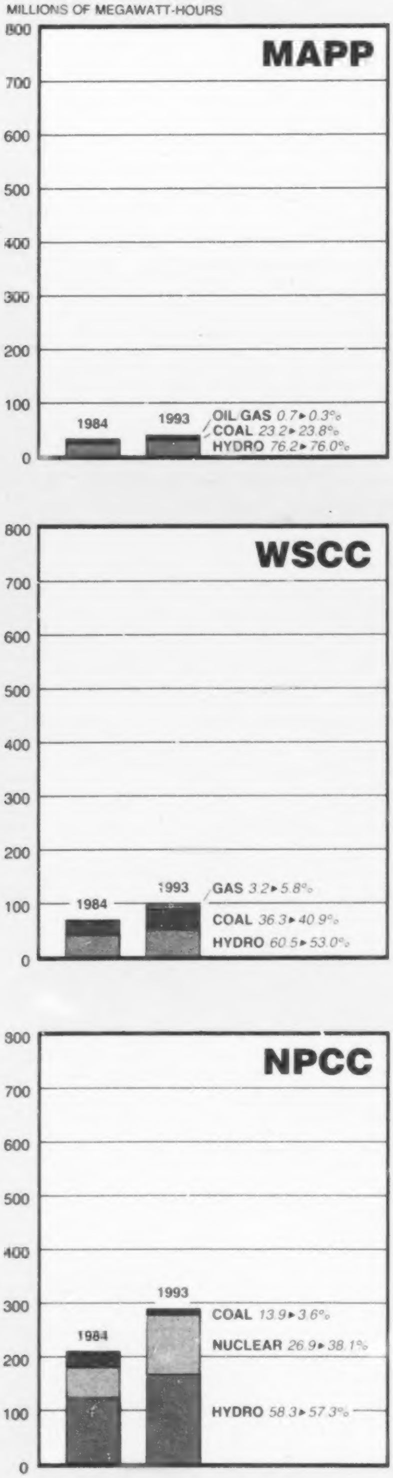
The *Annual Energy Generation* data include the annual energy projected to be generated by the NERC Regions, categorized by principal fuel sources. Also included is a tabulation of scheduled energy imports and exports, to provide a tabulated total net energy available for load.

The Electric Generation data presented in Table 11 are based on the assumption that the plans for Generating Capability, as tabulated for the various NERC Regions in Table 9, will be realized on schedule.

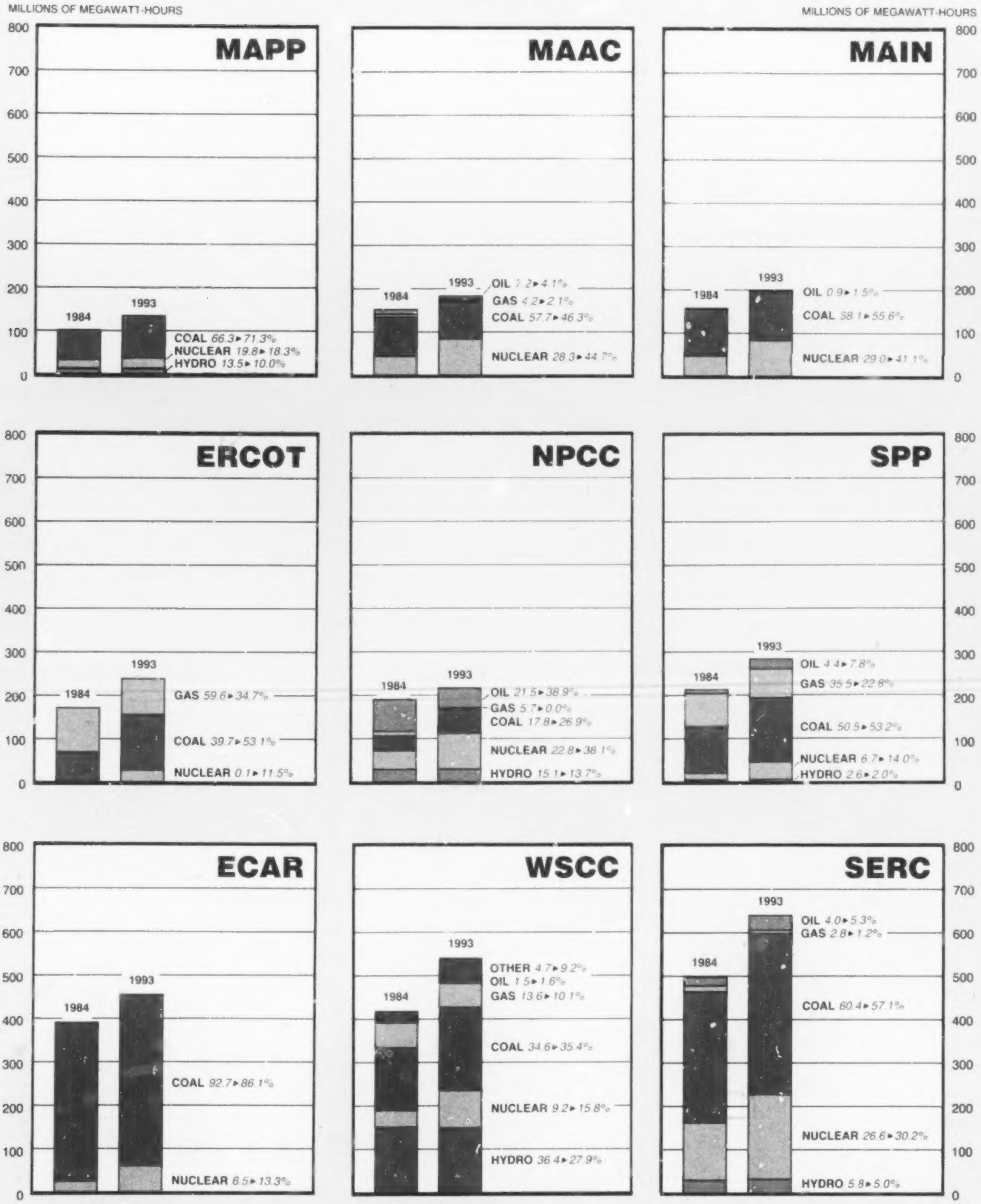
U.S. utilities are forecasting net electrical energy requirements for 1984-1993 which, in the aggregate, result in an average annual growth rate of 2.7%. Last year's ten-year forecast rate in the U.S. was 3.2%. Canadian utilities are forecasting a growth rate for 1984-1993 of 3.1%, down from the 3.7% ten-year rate forecast last year in Canada.

Even though many of the NERC Regions are projecting a lower growth rate than in past years, based on this year's projections the industry will require 30% more electric energy ten years from now. The charts on these pages show, by NERC Region the growth of generation expected to provide this energy by 1993.

(Canada)*



(U.S.)*



*The difference between the sum of the parts and 100% represents the share by sources not shown.

ANNUAL ENERGY GENERATION BY REGION
NERC-U.S. (Thousand MWh)

TABLE 11

	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
COAL	1,253,004	1,289,595	1.324,541	1.347,233	1.376.216	1.418,339	1.447.587	1.468.039	1,506,972	1,551,202	1,591,110
NUCLEAR	295,240	365,706	451,359	516,720	584,870	600,732	631,051	661,544	679,092	684,004	684,586
HYDRO	324,848	238,229	234,013	236.422	236.916	237,984	240,107	240.493	240,527	241,198	241,022
PS LOAD (−)	15,787	14,590	15,347	18.427	18.591	19,065	18.322	19,258	20.588	20,643	20,864
PS OUTPUT (+)	16,379	12,883	13,873	16.166	16,265	16,689	16,190	16,961	17,916	17,981	18,142
GEOTHERMAL	6,744	9,542	10.531	12,600	12,965	13,664	14.982	16.013	17,330	17,526	17,715
OIL—STEAM	130,677	121,810	101,012	100,359	90,478	91,967	96,984	97,385	96.720	103,401	116,360
OIL—CT	2,675	1,813	2,372	2,067	2,154	2,381	3.116	3,265	3,956	4,404	4,793
OIL—CC	672	1,124	1,424	858	843	838	894	935	1,041	1,308	1,359
GAS—STEAM	251,234	251,837	233,145	206,337	189,956	193,134	185.753	195,055	193,066	199,136	200,753
GAS—CT	2,455	2,259	2.251	1.786	1,814	2,274	2,524	2,560	2,286	2,466	2,732
GAS—CC	11,829	13,251	13,095	11,303	10.636	13,273	13,439	12,905	13.330	13,039	13,303
OTHER	7,109	14,161	17,982	21,460	25.551	28,799	33,941	35.247	34.004	37,813	45,096
NET GENERATION	2.287,079	307,620	390,251	454,884	530,073	601,009	668.254	731,144	785,652	852,835	918,107
IMPORT-EXPORT	54,554	82,523	81,145	85,920	83.649	83,979	87,810	94,161	110,317	116,663	121,743
NET FOR LOAD	2,341,633	2,390,143	2,471,396	2,540,804	2,613,722	2,684,938	2,756,064	2,825,305	2,895,969	2,969,498	3,039,850

ANNUAL ENERGY GENERATION BY REGION
NERC-CANADA (Thousand MWh)

TABLE 11

	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
COAL	67,523	61,540	56,620	54,856	54,209	53,898	54.635	57,938	59,675	58,935	58,743
NUCLEAR	46,410	57,115	67,949	75,626	81,858	91,079	96.008	97,296	99,362	107,085	111,114
HYDRO	189,863	189,116	200,555	212,570	223,040	230,013	231,503	232.994	235.517	239,978	246,885
PS LOAD (−)	87	0	0	0	0	0	0	0	0	0	0
PS OUTPUT (+)	0	0	0	0	0	0	0	0	0	0	0
GEOTHERMAL	0	0	0	0	0	0	0	0	0	0	0
OIL—STEAM	1,983	1,951	1,758	1,159	1,276	1,376	1,445	1,567	1,683	1,878	1,999
OIL—CT	13	18	31	29	27	28	0	0	2	9	17
OIL—CC	0	0	0	0	0	0	0	0	0	0	0
GAS—STEAM	1,683	1,659	1,414	1,432	1,438	1,372	1,225	1,793	2,759	3,940	4,714
GAS—CT	583	688	873	872	882	881	885	908	915	926	889
GAS—CC	0	0	0	0	0	0	0	0	0	0	0
OTHER	535	0	0	0	0	0	443	666	868	797	1,147
NET GENERATION	308,506	312,087	329,200	346,544	362,730	378,647	386,144	393,162	400,781	413,548	425,508
IMPORT-EXPORT	-6,178	2,369	-2,365	-6,758	-12,303	-16,564	-13,608	-10,087	-7,782	-9,825	-11,716
NET FOR LOAD	302,328	314,456	326,835	339,786	350,427	362,083	372,536	383,075	392,999	403,723	413,792

ANNUAL ENERGY GENERATION BY REGION

ECAR (Thousand MWh)

TABLE 11

	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
COAL	360,896	365,704	359,036	362,153	364,586	370,950	379,614	380,341	384,303	390,576	394,456
NUCLEAR	25,610	25,669	35,997	42,677	50,611	54,879	54,939	59,978	60,423	60,787	61,086
HYDRO	2,432	2,432	2,432	2,432	2,432	2,432	2,432	2,432	2,432	2,432	2,432
PS LOAD (−)	2,507	2,928	2,928	3,665	3,812	3,812	3,812	3,812	3,812	3,812	3,812
PS OUTPUT (+)	1,916	1,952	1,952	2,443	2,541	2,541	2,541	2,541	2,541	2,541	2,541
GEOTHERMAL	0	0	0	0	0	0	0	0	0	0	0
OIL—STEAM	1,549	1,520	1,567	1,373	1,273	1,199	1,229	1,135	1,167	1,292	1,292
OIL—CT	132	188	180	188	188	188	188	188	178	186	201
OIL—CC	26	22	22	22	22	22	22	22	22	22	22
GAS—STEAM	23	20	222	222	121	20	20	20	20	20	20
GAS—CT	121	110	110	110	110	110	113	116	119	123	123
GAS—CC	0	0	0	0	0	0	0	0	0	0	0
OTHER	0	0	0	0	0	0	0	0	0	0	0
NET GENERATION	390,198	394,689	398,598	407,955	418,672	428,529	437,286	442,961	447,393	454,167	458,361
IMPORT-EXPORT	-25,697	-23,889	-14,698	-13,355	-13,372	-12,029	-10,686	-8,261	-4,093	-2,367	1,539
NET FOR LOAD	364,501	370,800	383,900	394,600	404,700	416,500	426,600	434,700	443,300	451,800	459,900

ANNUAL ENERGY GENERATION BY REGION

ERCOT (Thousand MWh)

TABLE 11

	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
COAL	70,113	67,940	68,086	72,699	78,555	81,640	92,406	97,435	107,373	115,085	127,090
NUCLEAR	0	243	4,263	7,008	18,383	20,051	24,979	26,632	26,851	27,331	27,479
HYDRO	206	303	303	312	312	312	312	312	312	312	312
PS LOAD (−)	0	0	0	0	0	0	0	0	0	0	0
PS OUTPUT (+)	0	0	0	0	0	0	0	0	0	0	0
GEOTHERMAL	0	0	0	0	0	0	0	0	0	0	0
OIL—STEAM	1,759	388	387	369	367	379	386	388	370	385	402
OIL—CT	44	4	5	5	5	5	5	5	5	5	5
OIL—CC	9	4	3	1	1	1	1	1	1	1	1
GAS—STEAM	85,424	97,326	94,408	89,405	80,781	83,154	77,032	80,063	79,208	81,059	79,244
GAS—CT	273	124	139	86	78	81	89	107	92	108	152
GAS—CC	4,096	4,548	4,539	3,834	3,462	3,726	3,547	3,438	3,640	3,611	3,670
OTHER[a]	0	371	517	645	776	929	1,004	1,011	1,009	1,014	1,029
NET GENERATION	161,924	171,251	172,650	174,364	182,720	190,278	199,761	209,392	218,861	228,911	239,384
IMPORT-EXPORT[b]	11,448	13,769	19,181	23,010	23,455	23,946	23,617	23,585	23,670	23,270	23,151
NET FOR LOAD	173,372	185,020	191,831	197,374	206,175	214,224	223,378	232,977	242,531	252,181	262,535

ANNUAL ENERGY GENERATION BY REGION
MAAC (Thousand MWh)

TABLE 11

	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
COAL	94,310	89,976	85,928	84,066	85,267	85,072	87,178	81,772	84,155	86,255	87,204
NUCLEAR	29,756	44,120	55,066	64,860	66,504	69,961	70,586	82,321	82,270	82,200	84,254
HYDRO	3,531	3,556	3,655	3,716	3.716	3,792	3,792	3,792	3,792	3,792	3,792
PS LOAD (−)	2,282	2,449	2,447	2,497	2,623	2,671	2,559	2,434	2,564	2,637	2,656
PS OUTPUT (+)	1,557	1,659	1,658	1,692	1,777	1,810	1,734	1,649	1,738	1,787	1,800
GEOTHERMAL	0	0	0	0	0	0	0	0	0	0	0
OIL—STEAM	18,981	11,029	9,247	6,060	5,332	5,794	6,014	4,626	5,196	6,214	7,653
OIL—CT	1,330	108	104	30	28	33	41	27	35	54	67
OIL—CC	224	60	62	44	35	36	34	12	12	13	40
GAS—STEAM	8,115	5,987	5,432	5,211	5,019	4,747	4,810	4,163	4,452	4,658	3,916
GAS—CT	649	216	180	73	59	61	65	42	47	63	67
GAS—CC	493	537	561	393	314	328	304	108	112	117	0
OTHER	812[c]	1,045[c]	1,362[d]	1,738[d]	2,079[e]	2,410[e]	2,405[e]	2,405[e]	2,405[e]	2,410[e]	2,405[e]
NET GENERATION	157,476	155,844	160,808	165,386	167,507	171,373	174,404	178,483	181,650	184,926	188,542
IMPORT-EXPORT	22,514	24,647	23,537	21,980	22,661	22,647	22,916	22,252	22,733	23,005	22,941
NET FOR LOAD	179,990	180,491	184,345	187,366	190,168	194,020	197,320	200,735	204,383	207,931	211,483

ANNUAL ENERGY GENERATION BY REGION
MAIN (Thousand MWh)

TABLE 11

	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
COAL	113,773	109,123	104,389	101,985	98,444	102,343	105,362	106,475	108,344	110,792	112,277
NUCLEAR	35,121	46,395	60,393	69,432	79,223	78,515	78,606	81,198	81,435	81,267	83,009
HYDRO	2,559	2,275	2,277	2,284	2,315	2,323	2,323	2,322	2,322	2,322	2,322
PS LOAD (−)	58	132	124	110	89	75	51	84	63	109	76
PS OUTPUT (+)	23	70	66	58	46	41	27	44	33	56	42
GEOTHERMAL	0	0	0	0	0	0	0	0	0	0	0
OIL—STEAM	3,156	1,455	1,346	982	746	826	1,066	1,436	1,847	2,365	2,747
OIL—CT	70	79	130	53	56	62	56	107	116	206	301
OIL—CC	0	0	0	0	0	0	0	0	0	0	0
GAS—STEAM	813	274	180	73	31	34	45	43	50	58	67
GAS—CT	194	236	137	71	59	76	104	169	215	259	339
GAS—CC	0	0	0	0	0	0	0	53	119	132	145
OTHER	677	437	434	623	684	746	804	811	867	876	862
NET GENERATION	156,328	160,212	169,228	175,451	181,515	184,891	188,342	192,574	195,285	198,224	202,035
IMPORT-EXPORT	9,646	4,689	940	-597	-1,611	-1,268	-809	-1,184	-133	730	754
NET FOR LOAD	165,974	164,901	170,168	174,854	179,904	183,623	187,533	191,390	195,152	198,954	202,789

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ANNUAL ENERGY GENERATION BY REGION
MAPP-U.S. (Thousand MWh)

TABLE 11

	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
COAL	67,203	68.213	73.420	76,032	79,472	83,972	85,639	88.353	90,321	93,103	96,642
NUCLEAR	22,539	20,335	23,345	25.330	25.228	25.306	24.664	24.618	25,166	24,948	24,813
HYDRO	13,724	13,910	13,561	13,562	13,557	13,566	13,504	13.513	13.519	13,520	13,519
PS LOAD (−)	0	0	0	0	0	0	0	0	0	0	0
PS OUTPUT (+)	0	0	0	0	0	0	0	0	0	0	0
GEOTHERMAL	0	0	0	0	0	0	0	0	0	0	0
OIL—STEAM	60	74	104	100	107	100	99	102	112	141	107
OIL—CT	31	46	100	132	171	176	233	246	261	378	283
OIL—CC	0	1	1	1	1	1	1	1	1	1	1
GAS—STEAM	298	177	81	109	127	130	120	132	90	96	96
GAS—CT	149	172	217	188	194	105	107	110	111	114	116
GAS—CC	6	0	0	0	0	0	0	2	0	0	7
OTHER	0	0	0	0	0	0	0	0	0	0	0
NET GENERATION	104,010	102,928	110,829	115,454	118.857	123,436	124,367	127,077	129.581	132,301	135,584
IMPORT-EXPORT	-1,484	1,836	-2,521	-3,285	-3,258	-4,264	-1,977	-1,331	-1,007	-361	-446
NET FOR LOAD	102,526	104,764	108,308	112.169	115.579	119,172	122,390	125,746	128.574	131,940	135,138

ANNUAL ENERGY GENERATION BY REGION
MAPP-CANADA (Thousand MWh)

TABLE 11

	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
COAL	7,454	7,362	7,454	6.947	7,350	7,600	7,888	8.169	8.442	8.741	9,152
NUCLEAR	0	0	0	0	0	0	0	0	0	0	0
HYDRO	24,065	24,197	23,903	25,077	25,133	25,152	24,830	24,633	25.000	26,520	29,253
PS LOAD (−)	0	0	0	0	0	0	0	0	0	0	0
PS OUTPUT (+)	0	0	0	0	0	0	0	0	0	0	0
GEOTHERMAL	0	0	0	0	0	0	0	0	0	0	0
OIL—STEAM	52	28	0	0	0	0	0	0	0	0	0
OIL—CT	0	0	0	0	0	0	0	0	0	0	0
OIL—CC	0	0	0	0	0	0	0	0	0	0	0
GAS—STEAM	270	163	50	34	49	67	85	103	120	130	65
GAS—CT	36	22	15	11	18	25	35	47	60	66	34
GAS—CC	0	0	0	0	0	0	0	0	0	0	0
OTHER	0	0	0	0	0	0	0	0	0	0	0
NET GENERATION	31,877	31,772	31,422	32,069	32.550	32,844	32.838	32,952	33.622	35,457	38,504
IMPORT-EXPORT	-7,769	-7,413	-6,621	-6.371	-5,810	-5,242	-4,455	-3,663	-3,551	-4,526	-6,734
NET FOR LOAD	24,108	24,359	24,801	25.698	26,740	27,602	28,383	29,209	30,071	30,931	31,770

ANNUAL ENERGY GENERATION BY REGION
NPCC-U.S. (Thousand MWh)

TABLE 11

	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
COAL	32,683	33,774	36,899	39,886	46,759	53,932	56,727	56,741	57,659	58,184	58,082
NUCLEAR	42,777	43,350	50,069	58.857	67,884	70,344	73,903	74,697	81,696	82,004	82,198
HYDRO	32,038	28,603	28,807	28.860	28,851	28.979	29.076	29,317	29,430	29,595	29,594
PS LOAD (−)	4,521	2,963	2,966	3.273	3,874	3,830	4,084	4,611	5,134	5,304	5,470
PS OUTPUT (+)	3,096	2,098	2,100	2.321	2.742	2,711	2,889	3,293	3.720	3,845	3,959
GEOTHERMAL	0	0	0	0	0	0	0	0	0	0	0
OIL—STEAM	66,356	72,596	66,014	62.718	50,047	44,919	43,904	46.681	36,720	39,982	45,270
OIL—CT	218	362	544	200	254	244	200	150	150	170	170
OIL—CC	393	700	700	700	600	600	500	500	600	800	800
GAS—STEAM	14,716	10,727	9,265	2,964	786	803	610	417	224	31	31
GAS—CT	30	0	0	0	0	0	0	0	0	0	0
GAS—CC	304	0	0	0	0	0	0	0	0	0	0
OTHER	50	494	745	809	809	809	809	1,095	1,192	1,192	1,192
NET GENERATION	188,140	189,741	192.177	194,042	194,858	199.511	204,534	208,280	206,257	210,499	215,826
IMPORT-EXPORT	22,675	22,002	22,547	23,490	26,551	26,455	26,378	26,906	33,524	34,873	34,800
NET FOR LOAD	210,815	211,743	214,724	217,532	221,407	225,966	230,912	235,186	239,781	245,372	250,626

ANNUAL ENERGY GENERATION BY REGION
NPCC—New York (Thousand MWh)

TABLE 11

	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
COAL	20,606	20,674	22,399	25,086	30,559	35,132	36,327	36,341	36,659	37,384	37,282
NUCLEAR	16,511	18,550	22,369	24,957	31,484	31,944	31,903	32,697	32,696	32,804	32,698
HYDRO	26,934	23,833	23,977	24,020	24,011	24,139	24,236	24,477	24,590	24,755	24,754
PS LOAD (−)	2,615	1,183	1,086	1,273	1,774	1,730	1,984	2,511	3,034	3,204	3,370
PS OUTPUT (+)	1,753	828	760	891	1,242	1,211	1,389	1,793	2.220	2,345	2,459
GEOTHERMAL	0	0	0	0	0	0	0	0	0	0	0
OIL—STEAM	33,913	34,633	31,064	31,882	23,632	20,197	20,553	20,771	22.065	23,550	26,078
OIL—CT	134	262	444	100	179	174	150	100	100	70	70
OIL—CC	0	0	0	0	0	0	0	0	0	0	0
GAS—STEAM	12,659	10,727	9,265	2,964	786	803	610	417	224	31	31
GAS—CT	0	0	0	0	0	0	0	0	0	0	0
GAS—CC	0	0	0	0	0	0	0	0	0	0	0
OTHER[f]	0	244	420	484	484	484	484	779	867	867	867
NET GENERATION	109,895	108,568	109,612	109,111	110,603	112,374	113,668	114,855	116,387	118,602	120,869
IMPORT-EXPORT[g]	12,193	12,212	12,970	15,051	15,497	15,546	16,195	16,245	16,295	16,345	16,394
NET FOR LOAD	122,088	120,780	122,582	124,162	126,100	127,920	129,863	131,100	132,682	134,947	137,263

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ANNUAL ENERGY GENERATION BY REGION
NPCC—New England (Thousand MWh)

TABLE 11

	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
COAL	12,077	13.100	14.500	14,800	16,200	18,800	20,400	20,400	21,000	20,800	20,800
NUCLEAR	26,266	24,800	27,700	33,900	36,400	38.400	42,000	42,000	49,000	49,200	49,500
HYDRO[h]	5,104	4,770	4,830	4,840	4,840	4,840	4,840	4,840	4,840	4,840	4,840
PS LOAD (−)	1,906	1,780	1,880	2,000	2.100	2,100	2,100	2,100	2,100	2,100	2,100
PS OUTPUT (+)	1,343	1,270	1,340	1,430	1,500	1,500	1,500	1,500	1,500	1,500	1,500
GEOTHERMAL	0	0	0	0	0	0	0	0	0	0	0
OIL—STEAM	32,443	37,963	34,950	30,836	26,415	24,722	23,351	25,910	14,655	16,432	19,192
OIL—CT	84	100	100	100	75	50	50	50	50	100	100
OIL—CC	393	700	700	700	600	600	500	500	600	800	800
GAS[i] —STEAM	2,057	0	0	0	0	0	0	0	0	0	0
GAS[i] —CT	30	0	0	0	0	0	0	0	0	0	0
GAS[i] —CC	304	0	0	0	0	0	0	0	0	0	0
OTHER[j]	50	250	325	325	325	325	325	325	325	325	325
NET GENERATION	78,245	81,173	82,565	84,931	84,255	87,137	90,866	93,425	89,870	91,897	94,957
IMPORT-EXPORT	10,482	9,790	9,577	8,439	11,054	10,909	10,183	10,661	17,229	18,528	18,406
NET FOR LOAD	88,727	90,963	92,142	93,370	95,309	98,046	101,049	104,086	107.099	110,425	113,363

ANNUAL ENERGY GENERATION BY REGION
NPCC-CANADA (Thousand MWh)

TABLE 11

	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
COAL	37,186	29.385	22,782	19,616	17,279	14,374	12,781	14,985	15,234	12,656	10,484
NUCLEAR	46,410	57,115	67,949	75,626	81,858	91,079	96,008	97,296	99,362	107,085	111,114
HYDRO	125,534	123.629	133,633	142,773	152,178	157,869	158,468	158,938	160,477	163,079	166,934
PS LOAD (−)	87	0	0	0	0	0	0	0	0	0	0
PS OUTPUT (+)	0	0	0	0	0	0	0	0	0	0	0
GEOTHERMAL	0	0	0	0	0	0	0	0	0	0	0
OIL—STEAM	1,931	1,923	1,758	1,159	1,276	1,376	1,445	1,567	1,683	1,878	1,999
OIL—CT	13	18	31	29	27	28	0	0	2	9	17
OIL—CC	0	0	0	0	0	0	0	0	0	0	0
GAS—STEAM	0	0	0	0	0	0	0	0	0	0	0
GAS—CT	0	0	0	0	0	0	0	0	0	0	0
GAS—CC	0	0	0	0	0	0	0	0	0	0	0
OTHER	0	0	0	0	0	0	443	648	803	754	801
NET GENERATION	210,987	212.070	226,153	239,203	252,618	264,726	269,145	273,434	277,561	285,461	291,349
IMPORT-EXPORT[k]	3,952	9,782	4,256	-69	-6,175	-11,004	-8,835	-6,106	-3,913	-4,981	-4,664
NET FOR LOAD	214,939	221,852	230,409	239.134	246,443	253,722	260,310	267,328	273.648	280,480	286,685

ANNUAL ENERGY GENERATION BY REGION
NPCC—New Brunswick (Thousand MWh)

TABLE 11

	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
COAL	1,339	1,339	1,337	1,323	1,324	1,327	1,329	1,332	1,333	1,324	1,352
NUCLEAR	4,759	4,401	4,401	4,217	4,401	4,401	4,401	4,217	4,401	4,401	4,401
HYDRO	2,875	2,638	2,688	2,688	2,688	2,688	2,688	2,688	2,688	2,688	2,688
PS LOAD (−)	0	0	0	0	0	0	0	0	0	0	0
PS OUTPUT (+)	0	0	0	0	0	0	0	0	0	0	0
GEOTHERMAL	0	0	0	0	0	0	0	0	0	0	0
OIL—STEAM	1,920	1,922	1,731	1,138	1,270	1,357	1,443	1,556	1,640	1,785	1,872
OIL—CT	0	0	0	0	0	0	0	0	0	0	0
OIL—CC	0	0	0	0	0	0	0	0	0	0	0
GAS—STEAM	0	0	0	0	0	0	0	0	0	0	0
GAS—CT	0	0	0	0	0	0	0	0	0	0	0
GAS—CC	0	0	0	0	0	0	0	0	0	0	0
OTHER	0	0	0	0	0	0	0	0	0	0	0
NET GENERATION	10,893	10,300	10,157	9,366	9,683	9,773	9,861	9,793	10,062	10,198	10,313
IMPORT-EXPORT	-2,072	-1,062	-501	675	700	907	1,100	1,429	1,422	1,547	1,690
NET FOR LOAD	8,821	9,238	9,656	10,041	10,383	10,680	10,961	11,222	11,484	11,745	12,003

ANNUAL ENERGY GENERATION BY REGION
NPCC—Ontario (Thousand MWh)

TABLE 11

	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
COAL	35,847	28,046	21,445	18,293	15,955	13,047	11,452	13,653	13,901	11,332	9,132
NUCLEAR	39,475	49,445	59,883	67,218	73,257	82,478	87,407	88,879	90,761	98,484	102,513
HYDRO	36,709	36,790	36,118	36,376	36,189	36,122	34,618	34,618	34,618	34,716	34,618
PS LOAD (−)	87	0	0	0	0	0	0	0	0	0	0
PS OUTPUT (+)	0	0	0	0	0	0	0	0	0	0	0
GEOTHERMAL	0	0	0	0	0	0	0	0	0	0	0
OIL—STEAM	-11[1]	0	0	0	0	0	1	1	2	1	1
OIL—CT	12	18	29	27	27	28	0	0	0	0	0
OIL—CC	0	0	0	0	0	0	0	0	0	0	0
GAS—STEAM	0	0	0	0	0	0	0	0	0	0	0
GAS—CT	0	0	0	0	0	0	0	0	0	0	0
GAS—CC	0	0	0	0	0	0	0	0	0	0	0
OTHER	0	0	0	0	0	0	443	648	803	754	801
NET GENERATION	111,945	114,299	117,475	121,914	125,428	131,675	133,921	137,799	140,085	145,287	147,065
IMPORT-EXPORT	-5,874	-5,306	-4,908	-5,609	-5,540	-8,183	-7,700	-8,500	-8,500	-11,000	-10,500
NET FOR LOAD	106,071	108,993	112,567	116,305	119,888	123,492	126,221	129,299	131,585	134,287	136,565

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ANNUAL ENERGY GENERATION BY REGION
NPCC—Québec (Thousand MWh)

TABLE 11

	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
COAL	0	0	0	0	0	0	0	0	0	0	0
NUCLEAR	2,176	3,269	3,665	4,191	4,200	4,200	4,200	4,200	4,200	4,200	4,200
HYDRO	85,950	84,201	94,827	103,709	113,301	119,059	121,162	121,632	123,171	125,675	129,628
PS LOAD (−)	0	0	0	0	0	0	0	0	0	0	0
PS OUTPUT (+)	0	0	0	0	0	0	0	0	0	0	0
GEOTHERMAL	0	0	0	0	0	0	0	0	0	0	0
OIL—STEAM	22	1	27	21	6	19	1	10	41	92	126
OIL—CT	1	0	2	2	0	0	0	0	2	9	17
OIL—CC	0	0	0	0	0	0	0	0	0	0	0
GAS—STEAM	0	0	0	0	0	0	0	0	0	0	0
GAS—CT	0	0	0	0	0	0	0	0	0	0	0
GAS—CC	0	0	0	0	0	0	0	0	0	0	0
OTHER	0	0	0	0	0	0	0	0	0	0	0
NET GENERATION	88,149	87,471	98,521	107,923	117,507	123,278	125,363	125,842	127,414	129,976	133,971
IMPORT-EXPORT[k]	11,898	16,150	9,665	4,865	-1,335	-3,728	-2,235	965	3,165	4,472	4,146
NET FOR LOAD	100,047	103,621	108,186	112,788	116,172	119,550	123,128	126,807	130,579	134,448	138,117

ANNUAL ENERGY GENERATION BY REGION
SERC (Thousand MWh)

TABLE 11

	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
COAL	281,263	301,906	329,846	333,906	332,620	338,878	334,762	345,520	353,457	362,974	370,188
NUCLEAR	119,260	132,848	144,890	157,783	174,136	177,045	193,087	193,856	195,082	197,045	195,452
HYDRO	34,063	29,139	29,183	29,285	29,303	29,712	31,963	31,963	31,963	31,991	32,076
PS LOAD (−)	4,014	3,151	3,882	5,791	5,639	6,086	5,436	5,725	6,475	6,082	6,131
PS OUTPUT (+)	3,173	2,403	2,977	4,467	4,351	4,692	4,195	4,399	4,974	4,684	4,712
GEOTHERMAL	0	0	0	0	0	0	0	0	0	0	0
OIL—STEAM	31,480	19,673	12,776	15,620	17,388	22,163	24,767	23,208	28,054	28,362	33,212
OIL—CT	651	548	763	930	906	954	1,075	1,012	895	992	1,208
OIL—CC	16	0	0	0	0	0	0	0	0	0	0
GAS—STEAM	15,195	12,067	11,949	9,369	8,727	7,319	5,846	6,124	6,775	6,427	6,578
GAS—CT	614	321	288	275	271	42	42	50	63	47	56
GAS—CC	1,161	1,423	772	729	839	803	886	972	1,020	958	1,161
OTHER	2,125	2,754	4,523	6,663	7,491	8,677	7,984	8,403	8,642	8,948	9,323
NET GENERATION	484,987	499,931	534,085	553,236	570,473	584,199	599,171	609,782	624,450	636,346	647,835
IMPORT-EXPORT	5,912	1,790	-8,352	-10,488	-9,001	-8,035	-7,490	-2,025	-1,034	3,720	8,048
NET FOR LOAD	490,899	501,721	525,733	542,748	561,472	576,164	591,681	607,757	623,416	640,066	655,883

ANNUAL ENERGY GENERATION BY REGION
SERC—Florida (Thousand MWh)

TABLE 11

	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
COAL	23,384	30,347	41,328	41,989	46.017	49,857	51,595	52,311	53,252	56.756	58,405
NUCLEAR	15,558	25,862	23,322	26,280	27,655	24,256	26.275	27,550	24,320	26,477	27,661
HYDRO	203	227	243	254	254	254	254	254	254	254	254
PS LOAD (−)	0	0	0	0	0	0	0	0	0	0	0
PS OUTPUT (+)	0	0	0	0	0	0	0	0	0	0	0
GEOTHERMAL	0	0	0	0	0	0	0	0	0	0	0
OIL—STEAM	30,127	17,734	10,297	12,929	14,757	19,383	20,592	21,547	26,139	25,618	31,444
OIL—CT	344	321	251	264	201	307	319	320	342	343	404
OIL—CC	16	0	0	0	0	0	0	0	0	0	0
GAS—STEAM	14,635	11,761	11,451	8,844	8,535	7,152	5,673	5,953	6,366	6,160	6,391
GAS—CT	331	27	27	27	30	30	30	29	33	30	32
GAS—CC	1,161	1,423	772	729	939	803	886	972	1,020	958	1,161
OTHER	1,268	1,365	2,071	2,632	2,884	3.243	3,391	3,540	3,554	3,656	3,677
NET GENERATION	87,027	89,067	89,762	93.948	101,252	105,285	109.015	112.476	115,280	120,252	129,429
IMPORT-EXPORT	12,793	13,849	18,895	18,282	14,693	14,436	14,443	14,843	15,824	15,706	10,314
NET FOR LOAD	99,820	102,916	108,657	112,230	115,945	119,721	123,458	127,319	131,104	135,958	139,743

ANNUAL ENERGY GENERATION BY REGION
SERC—Southern (Thousand MWh)

TABLE 11

	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
COAL	97,960	106,541	119,801	123,080	115,981	115,434	113,582	117,144	121,972	119,961	114,514
NUCLEAR	19,018	17,451	19,003	19,929	26,542	29,321	33,987	33,818	32,491	33,809	33,415
HYDRO	7,481	6,009	6,076	6,166	6.166	6.166	8,417	8,417	8.417	8,417	8.426
PS LOAD (−)	358	668	668	668	668	668	93	179	291	145	53
PS OUTPUT (+)	286	502	502	502	502	502	63	121	220	110	40
GEOTHERMAL	0	0	0	0	0	0	0	0	0	0	0
OIL—STEAM	56	154	242	223	153	130	87	92	126	113	98
OIL—CT	203	35	110	191	61	58	14	21	23	24	11
OIL—CC	0	0	0	0	0	0	0	0	0	0	0
GAS—STEAM	283	163	498	521	185	157	162	171	409	267	187
GAS—CT	244	237	244	244	235	2	2	2	2	2	2
GAS—CC	0	0	0	0	0	0	0	0	0	0	0
OTHER	72	300	523	1,095	810	1,430	0	0	0	0	0
NET GENERATION	125,245	130,724	146,331	151,283	149,967	152,532	156,221	159.607	163,369	162,558	156,640
IMPORT-EXPORT	-11,658	-15,263	-27,555	-29,144	-24,639	-23,920	-24,302	-24,188	-24,282	-19,765	-10,280
NET FOR LOAD	113,587	115,461	118,776	122,139	125,328	128,612	131,919	135,419	139,087	142,793	146,360

CONTINUED

ANNUAL ENERGY GENERATION BY REGION
SERC—TVA (Thousand MWh)

TABLE 11

	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
COAL	68,874	70,446	74,681	81,312	80,357	81,142	80.279	81,884	79,736	81,501	84,181
NUCLEAR	27,921	28,575	33,972	32,659	40,572	42.477	46,470	47,692	52,274	52,409	51,992
HYDRO	20,194	17,706	17,706	17,706	17,805	18.080	18,080	18.080	18,080	18,108	18,185
PS LOAD (−)	1,950	1,673	1,566	1,666	1,594	1,563	1,676	1,726	1,858	1,872	1,898
PS OUTPUT (+)	1,536	1,295	1,213	1,290	1,234	1,210	1,298	1,337	1,439	1,450	1,470
GEOTHERMAL	0	0	0	0	0	0	0	0	0	0	0
OIL—STEAM	0	0	0	0	0	0	0	0	0	0	0
OIL—CT	58	43	189	290	357	371	368	460	375	447	566
OIL—CC	0	0	0	0	0	0	0	0	0	0	0
GAS—STEAM	0	0	0	0	0	0	0	0	0	0	0
GAS—CT	0	0	0	0	0	0	0	0	0	0	0
GAS—CC	0	0	0	0	0	0	0	0	0	0	0
OTHER	274	359	727	1,487	1,658	1,739	1,826	1,940	2.137	2,352	2,586
NET GENERATION	116,907	116,751	126,922	133,078	140,389	143,456	146,645	149,667	152,183	154,395	157,082
IMPORT-EXPORT	-2,892	5	229	253	266	243	175	351	356	362	419
NET FOR LOAD	114,015	116,756	127,151	133,331	140,655	143,699	146,820	150,018	152,539	154,757	157,501

ANNUAL ENERGY GENERATION BY REGION
SERC—VACAR (Thousand MWh)

TABLE 11

	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
COAL	91,045	94,572	94,036	87,525	90,265	92,445	89.306	94,181	98,497	104,756	113,088
NUCLEAR	56,763	60,960	68,593	78,915	79,367	80,991	86,355	84,796	85,997	84,350	82,384
HYDRO	6,185	5,197	5,158	5.159	5.158	5,212	5,212	5,212	5,212	5,212	5,211
PS LOAD (−)	1,706	810	1,648	3,457	3,377	3,855	3,667	3,820	4,326	4,065	4,180
PS OUTPUT (+)	1,351	606	1,262	2,675	2,615	2,980	2,834	2,941	3,315	3,124	3,202
GEOTHERMAL	0	0	0	0	0	0	0	0	0	0	0
OIL—STEAM	1,297	1,785	2,237	2.468	2,478	2,650	4,088	1,569	1,789	2,631	1,670
OIL—CT^m	46	149	213	185	207	218	374	211	155	178	227
OIL—CC	0	0	0	0	0	0	0	0	0	0	0
GAS—STEAM	277	143	0	4	7	10	11	0	0	0	0
GAS—CT	39	57	17	4	6	10	10	19	28	15	22
GAS—CC	0	0	0	0	0	0	0	0	0	0	0
OTHER	511	730	1,202	1,447	2,139	2,265	2,767	2,923	2,951	2.940	3,060
NET GENERATION	155,808	163,389	171,070	174,927	178,865	182,926	187.290	188,032	193,618	199,141	204,684
IMPORT-EXPORT	7,669	3,199	79	121	679	1,206	2,194	6,969	7,068	7,417	7,595
NET FOR LOAD	163,477	166,588	171,149	175,048	179,544	184,132	189,484	195,001	200,686	206,558	212,279

ANNUAL ENERGY GENERATION BY REGION
SPP (Thousand MWh)

TABLE 11

	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
COAL	103,916	108,159	112,822	119.599	124,026	127,724	128,301	133,263	138.484	145,517	153,651
NUCLEAR	7,582	14,299	24,631	27,964	31,831	32,520	36,515	38,355	40,812	41,274	40,481
HYDRO	7,412	5,580	5,654	5.654	5,654	5,654	5,654	5,654	5,654	5,654	5,654
PS LOAD (−)	168	176	184	0	0	0	0	0	0	0	0
PS OUTPUT (+)	105	110	115	0	0	0	0	0	0	0	0
GEOTHERMAL	0	0	0	0	0	0	0	0	0	0	0
OIL—STEAM	826	9,066	7,013	9,705	11,538	12,401	13,902	14,494	17.607	17,972	20,338
OIL—CT	55	113	72	100	111	66	419	535	1,610	1,674	1,725
OIL—CC	0	323	600	80	174	168	326	392	398	459	476
GAS—STEAM	82,727	73,159	62.581	55,693	53,366	54,983	56,731	58,822	56,003	61,405	62,994
GAS—CT	185	243	236	247	230	244	279	269	299	332	379
GAS—CC	3,528	2,485	2,336	2,590	2,660	2,603	2,713	2,692	2,840	2,732	2,651
OTHER	780	652	626	626	626	626	626	626	626	626	697
NET GENERATION	206,948	214,013	216,502	222.258	230,216	236,989	245,466	255,102	264,333	277,645	289,046
IMPORT-EXPORT	10,740	8,490	13,810	14,382	13,623	14,113	13,252	11,176	10,204	5,428	1,509
NET FOR LOAD	217,688	222,503	230,312	236,640	243,839	251,102	258,718	266,278	274,537	283,073	290,555

ANNUAL ENERGY GENERATION BY REGION
SPP—E. Ark.—W. Miss.—La. Area (Thousand MWh)

TABLE 11

	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
COAL	22,427	20,883	24,634	26,120	26,783	26,959	26,796	27,290	27,745	29,668	33,475
NUCLEAR	7,582	14,299	20,217	23,501	26,225	27,385	30,708	32,547	34,921	35,544	34,338
HYDRO	201	167	167	167	167	167	167	167	167	167	167
PS LOAD (−)	0	0	0	0	0	0	0	0	0	0	0
PS OUTPUT (+)	0	0	0	0	0	0	0	0	0	0	0
GEOTHERMAL	0	0	0	0	0	0	0	0	0	0	0
OIL—STEAM	428	9,002	6,937	9.626	11,456	12,329	13.823	14,413	17,518	17,874	20,239
OIL—CT	7	1	1	0	1	1	3	8	15	23	33
OIL—CC	0	323	600	80	174	168	326	392	398	459	476
GAS—STEAM	48,161	39,002	32.048	25,855	25,326	26,010	26.253	26.873	25,072	29,918	31,388
GAS—CT	20	69	85	73	48	57	62	61	66	93	121
GAS—CC	339	0	0	0	0	0	0	0	0	0	0
OTHER	493	416	390	390	390	390	390	390	390	390	390
NET GENERATION	79,658	84,162	85,079	85,812	90,570	93,466	98,528	102.141	106,292	114,136	120,627
IMPORT-EXPORT	22,904	18,687	20,543	21,621	19,724	19,964	17,761	16,889	15,702	10,938	6,986
NET FOR LOAD	102,562	102,849	105,622	107,433	110,294	113,430	116,289	119,030	121,994	125,074	127,613

CONTINUED

ANNUAL ENERGY GENERATION BY REGION
SPP—W. Ark.–Okla. Area (Thousand MWh)

TABLE 11

	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
COAL	36,906	40,735	44,568	48,120	51,493	53.578	54,261	57,572	60,866	63,817	67,046
NUCLEAR	0	0	0	0	0	0	0	0	0	0	0
HYDRO	7,138	5,353	5,427	5,427	5,427	5.427	5,427	5,427	5.427	5,427	5,427
PS LOAD (−)	168	176	184	0	0	0	0	0	0	0	0
PS OUTPUT (+)	105	110	115	0	0	0	0	0	0	0	0
GEOTHERMAL	0	0	0	0	0	0	0	0	0	0	0
OIL—STEAM	178	41	51	56	56	56	56	56	56	56	56
OIL—CT	1	0	0	0	0	0	313	387	1,408	1,536	1,536
OIL—CC	0	0	0	0	0	0	0	0	0	0	0
GAS—STEAM	31,279	31,665	28,661	27,507	25,888	26.427	27,871	29.405	28,361	28,889	28,630
GAS—CT	23	24	39	25	23	24	44	24	61	60	60
GAS—CC	3,174	2,475	2.328	2.587	2.656	2,600	2,701	2,678	2,815	2,696	2,612
OTHER	287	236	236	236	236	236	236	236	236	236	307
NET GENERATION	78,923	80,463	81,241	83,958	85,779	88,348	90,849	95,785	99,230	102,717	105,674
IMPORT-EXPORT	-9,984	-7,567	-4,206	-4,251	-3,272	-3,014	-2,596	-4,356	-4,259	-4,129	-4,033
NET FOR LOAD	68,939	72,896	77,035	79,707	82,507	85,334	88,253	91,429	94,971	98,588	101,641

ANNUAL ENERGY GENERATION BY REGION
SPP—W. Mo.–Kan. Area (Thousand MWh)

TABLE 11

	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
COAL	44,583	46,541	43,620	45,359	45,750	47,187	47,304	48.401	49.873	52,032	53,130
NUCLEAR	0	0	4,414	4.463	5,606	5,135	5.807	5,808	5,891	5,730	6,143
HYDRO	73	60	60	60	60	60	60	60	60	60	60
PS LOAD (−)	0	0	0	0	0	0	0	0	0	0	0
PS OUTPUT (+)	0	0	0	0	0	0	0	0	0	0	0
GEOTHERMAL	0	0	0	0	0	0	0	0	0	0	0
OIL—STEAM	220	23	25	23	26	16	23	25	33	42	43
OIL—CT	47	112	71	100	110	65	103	140	187	115	156
OIL—CC	0	0	0	0	0	0	0	0	0	0	0
GAS—STEAM	3,287	2,492	1,872	2,331	2,152	2.546	2,607	2,544	2,570	2,598	2,976
GAS—CT	142	150	112	149	159	163	173	184	172	179	198
GAS—CC	15	10	8	3	4	3	12	14	25	36	39
OTHER	0	0	0	0	0	0	0	0	0	0	0
NET GENERATION	48,367	49,388	50,182	52,488	53,867	55.175	56,089	57.176	58,811	60,792	62,745
IMPORT-EXPORT	-2,180	-2,630	-2,527	-2,988	-2,829	-2,837	-1,913	-1,357	-1,239	-1,381	-1,444
NET FOR LOAD	46,187	46,758	47,655	49,500	51,038	52,338	54,176	55,819	57.572	59,411	61,301

ANNUAL ENERGY GENERATION BY REGION
WSCC-U.S. (Thousand MWh)

TABLE 11

	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
COAL	128,847	144,800	154,115	156,907	166.487	173.828	177,598	178.139	182.876	188,716	191,520
NUCLEAR	12,595	38,447	52,705	62,809	71,070	72,031	73,772	79.889	85,357	87,148	85,814
HYDRO	228,883[n]	152,431	148,141	150,317	150,696	151,214	151,051	151,180	151,103	151,580	151,321
PS LOAD (−)	2,237	2,791	2.816	3.091	2.554	2.591	2,380	2.592	2,540	2,699	2,719
PS OUTPUT (+)	6,509	4,591	5,005	5,185	4,808	4.894	4.812	5,035	4,910	5,068	5,088
GEOTHERMAL	6,744	9,542	10,531	12.600	12,965	13,664	14,982	16,013	17,330	17,526	17,715
OIL—STEAM	6,510	6,069	2,558	3,432	3,680	4.186	5.617	5,315	5,647	6,688	7,339
OIL—CT	144	365	466	429	435	653	899	995	706	739	833
OIL—CC	4	14	36	10	10	10	10	7	7	12	19
GAS—STEAM	43,923	52,100	49,027	43.291	40,998	41,944	40.539	45,271	46,244	45,382	47,807
GAS—CT	240	837	944	736	813	1,555	1,725	1,697	1,340	1,420	1,500
GAS—CC	2,241	4,258	4,887	3.757	3.361	5.813	5.989	5.640	5.599	5,489	5,669
OTHER*	2,665	8,408	9,775	10,356	13,086	14,602	20,309	20,896	19,263	22,747	29,588
NET GENERATION	437,068	419.011	435,374	446,738	465.855	481,803	494,923	507,493	517,842	529,816	541.494
IMPORT-EXPORT	-1,200	29,189	26,701	30,783	24,601	22,414	22,609	23,043	26,453	28,365	29,447
NET FOR LOAD	435,868	448,200	462,075	477,521	490,456	504,217	517,532	530,536	544,295	558,181	570,941

ANNUAL ENERGY GENERATION BY REGION
WSCC—NWPP (Thousand MWh)

TABLE 11

	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
COAL	40,651	49,968	57,479	56,465	61,357	63,474	63.362	62,652	64,410	65,493	65,526
NUCLEAR	7,596	18,314	16,240	17.862	17.976	18.086	18,694	25,106	30,932	32,334	30,345
HYDRO	151,182[n]	110,114	108,233	110.922	110,922	111,254	110.922	110,922	110.922	111,254	110,922
PS LOAD (−)	0	0	0	0	0	0	0	0	0	0	0
PS OUTPUT (+)	0	0	0	0	0	0	0	0	0	0	0
GEOTHERMAL	0	99	131	137	137	138	137	137	137	138	137
OIL—STEAM	1	0	0	0	0	97	96	96	96	97	96
OIL—CT	0	0	0	0	0	211	211	211	211	211	211
OIL—CC	0	0	0	0	0	0	0	0	0	0	0
GAS—STEAM	402	1,218	1,195	1,191	1,209	1,221	1,209	1,183	1,174	1,212	1,209
GAS—CT	1	69	96	0	0	255	254	254	254	255	254
GAS—CC	0	383	767	0	0	2,433	2,418	2,418	2,418	2,433	2,418
OTHER*	369	763	1,140	1,640	1,891	3.277	8.553	7,578	5,212	7,598	14,013
NET GENERATION	200,202	180,928	185,289	188,217	193,492	200.446	205,856	210,557	215,766	221,025	225,131
IMPORT-EXPORT	-28,196	-1,456	-851	1,386	1,011	26	-162	-175	-183	-195	-201
NET FOR LOAD	172,006	179,472	184,438	189,603	194,503	200,472	205,694	210,382	215.583	220,830	224,930

* The Northwest Power Pool (U.S.) is projecting a deficiency for the years 1988-1993, based on planned resources, assumed adverse hydro conditions, and the forecast energy requirements. To cover the projected deficiency, this category is also used to include the imports that would be necessary from systems outside the Northwest. From 1988 on, the annual amounts of GWh imports included in this category are 1204, 6348, 5254, 2756, 5006, 11291.

CONTINUED

ANNUAL ENERGY GENERATION BY REGION
WSCC—RMPA (Thousand MWh)

TABLE 11

	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
COAL	24,114	26,849	27 670	29,297	30,386	31,675	33.046	34,578	35,860	37,217	38,515
NUCLEAR	787	788	1,021	1,075	1,404	1,221	1,171	1,304	1.171	1,308	1,175
HYDRO	13,357	10,553	9,292	9,239	9,266	9,289	9.289	9.289	9.289	9,289	9,289
PS LOAD (−)	215	825	1,080	1,092	1,141	1,216	1,256	1,232	1,250	1,248	1,250
PS OUTPUT (+)	155	631	816	822	846	884	904	892	901	900	901
GEOTHERMAL	0	0	0	0	0	0	0	0	0	0	0
OIL—STEAM	13	25	23	27	32	33	32	49	53	58	64
OIL—CT	24	26	25	25	25	26	27	26	26	25	26
OIL—CC	0	0	0	0	0	0	0	0	0	0	0
GAS—STEAM	256	338	394	324	314	408	447	372	393	362	359
GAS—CT	26	67	73	81	89	237	290	185	160	97	103
GAS—CC	0	0	0	0	0	0	0	0	0	0	0
OTHER	6	87	167	251	386	386	393	395	395	395	395
NET GENERATION	38,523	38,539	38,401	40,049	41,607	42,943	44.343	45,858	46,998	48,403	49,577
IMPORT-EXPORT	-6,718	-4,488	-3,353	-3,487	-3,277	-2,987	-2,914	-2,988	-2,855	-2,762	-2,411
NET FOR LOAD	31,805	34,051	35,048	36,562	38,330	39,956	41,429	42.870	44,143	45,641	47,166

ANNUAL ENERGY GENERATION BY REGION
WSCC—AZ-NM (Thousand MWh)

TABLE 11

	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
COAL	38,677	41,717	43.790	44,603	45,266	47,153	49,354	49,646	49,839	50,913	51,638
NUCLEAR	0	299	5,954	10,274	15,327	16,134	16,361	16,764	16,625	16,815	16,762
HYDRO	3,649	2,626	2,641	2,712	2,707	2.710	2.713	2,714	2,707	2,710	2,713
PS LOAD (−)	240	282	271	293	277	255	273	287	314	296	273
PS OUTPUT (+)	167	197	190	205	194	179	191	201	220	207	191
GEOTHERMAL	0	0	39	35	35	35	35	35	35	35	35
OIL—STEAM	349	253	117	31	174	222	279	786	907	937	975
OIL—CT	34	22	49	42	33	38	35	75	88	119	114
OIL—CC	1	1	23	0	0	0	0	0	0	6	14
GAS—STEAM	2,170	3,431	2.777	2,571	1.578	1,734	1,786	1,767	1,685	1,890	1,884
GAS—CT	150	109	183	170	102	137	210	201	186	219	217
GAS—CC	1,248	1,930	2,292	1,889	1,497	1,509	1,714	1,433	1,389	1,302	1,517
OTHER	0	0	0	0	0	0	0	0	0	0	0
NET GENERATION	46,205	50,303	57,784	62,239	66,636	69,596	72.405	73,335	73,367	74,857	75,787
IMPORT-EXPORT	-2,123	-4,759	-9,466	-8,453	-10,293	-11,029	-11,637	-10,494	-8,416	-7,627	-6,358
NET FOR LOAD	44.082	45,544	48,318	53.786	56,343	58,567	60,768	62,841	64.951	67,230	69,429

ANNUAL ENERGY GENERATION BY REGION
WSCC—CA-SNV (Thousand MWh)

TABLE 11

	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
COAL	25,405	26,266	25,176	26,542	29,478	31,526	31,836	31,263	32,767	35,093	35,841
NUCLEAR	4,212	19,046	29,482	33,598	36,363	36,590	37,546	36,715	36,629	36,691	37,532
HYDRO	60,695[n]	29,138	27,975	27,444	27,801	27.961	28,127	28.263	28.185	28,327	28,397
PS LOAD (−)[o]	1,782	1,684	1,465	1,706	1,136	1,120	851	1,073	976	1,155	1,196
PS OUTPUT (+)[o]	6,187	3,763	3,999	4.158	3,768	3,831	3.717	3.942	3,789	3,961	3,996
GEOTHERMAL	6,744	9,443	10.361	12,428	12,793	13.491	14,810	15,841	17,158	17,353	17,543
OIL—STEAM	6,147	5,731	2,418	3,374	3,474	3,834	5.210	4.384	4,591	5,596	6,204
OIL—CT	86	317	392	362	377	378	626	683	381	384	482
OIL—CC	3	13	13	10	10	10	10	7	7	6	5
GAS—STEAM	41,095	47,113	44,661	39.205	37.897	38.581	37,097	41,949	42.992	41,918	44,355
GAS—CT	63	592	592	485	622	926	971	1,057	740	849	926
GAS—CC	993	1,945	1,828	1,868	1,864	1,871	1,857	1,789	1.792	1,754	1,734
OTHER	2,290	7,558	8.468	8,465	10,809	10.939	11.363	12.923	13.656	14,754	15,180
NET GENERATION	152,138	149,241	153,900	156,233	164,120	168,818	172.319	177,743	181,711	185,531	190,999
IMPORT-EXPORT	35,837	39,892	40,371	41,337	37,160	36,404	37,322	36,700	37,907	38,949	38,417
NET FOR LOAD	187,975	189,133	194,271	197,570	201,280	205,222	209,641	214,443	219,618	224,480	229,416

ANNUAL ENERGY GENERATION BY REGION
WSCC-CANADA (Thousand MWh)

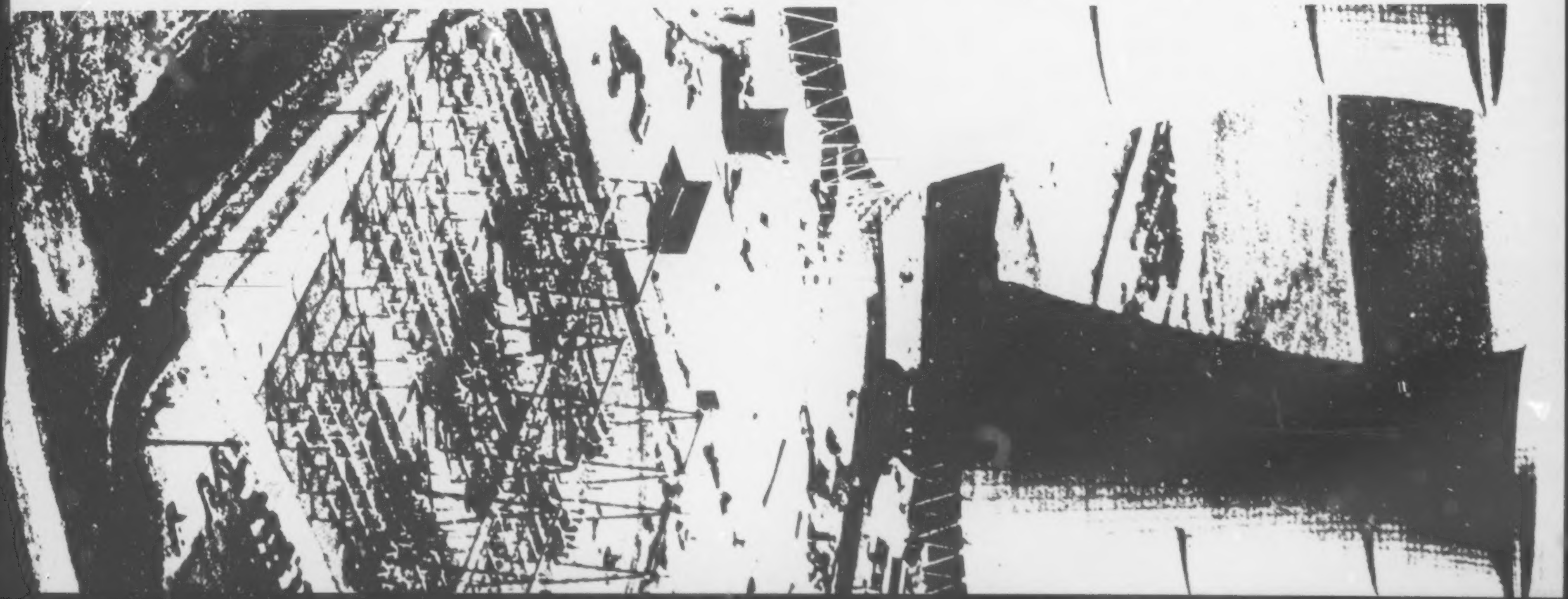
TABLE 11

	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
COAL	22,883	24,793	26,384	28,293	29,500	31,924	33.966	34.784	35,999	37,538	39,107
NUCLEAR	0	0	0	0	0	0	0	0	0	0	0
HYDRO	40,264	41,290	43.019	44.720	45,729	46,992	48,205	49,423	50.040	50,379	50,698
PS LOAD (−)	0	0	0	0	0	0	0	0	0	0	0
PS OUTPUT (+)	0	0	0	0	0	0	0	0	0	0	0
GEOTHERMAL	0	0	0	0	0	0	0	0	0	0	0
OIL—STEAM	0	0	0	0	0	0	0	0	0	0	0
OIL—CT	0	0	0	0	0	0	0	0	0	0	0
OIL—CC	0	0	0	0	0	0	0	0	0	0	0
GAS—STEAM	1,413	1,496	1,364	1,398	1.389	1,305	1.140	1,690	2,639	3,810	4,649
GAS—CT	547	666	858	861	864	856	850	861	855	860	855
GAS—CC	0	0	0	0	0	0	0	0	0	0	0
OTHER	535	0	0	0	0	0	0	18	65	43	346
NET GENERATION	65,642	68.245	71,625	75,272	77,562	81,077	84.161	86.776	89,598	92,630	95,655
IMPORT-EXPORT	-2,361	0	0	-318	-318	-318	-318	-318	-318	-318	-318
NET FOR LOAD	63,281	68,245	71,625	74.754	77,244	80,759	83,843	86,458	89,280	92,312	95,337

CONTINUED

FOOTNOTES TO TABLE 11

a/ Includes refuse, conservation, load management, and other supply options.
b/ Includes cogeneration, purchased power, and net power interchange.
c/ Includes Beth. Steel, Del. City 1, 2, & 3 (refinery gas, petroleum coke, and oil).
d/ Includes PS & BC Trash Burner units.
e/ Del. City 1, 2, 3 drop out (refinery gas, petroleum coke, and oil).
f/ Solid waste.
g/ Includes wheeling.
h/ Median hydro.
i/ Gas is burned on an as available, interruptible basis. No firm contracts are anticipated in the future. Future generation from gas has been included in the oil categories.
j/ Wood and refuse.
k/ Although Québec exports electric energy to the U.S., it imports much more energy from Churchill Falls in Labrador (Province of Newfoundland), becoming a net *importer* of electric energy. Because Churchill Falls is not a NERC member, this results in NERC-Canada being a net importer in certain years, while Canada as a whole is consistently a net exporter of electric energy to the U.S.
l/ Energy required to maintain mothballed oil-fired plant.
m/ Includes some combination of oil and gas generation for the years 1986-1993.
n/ Adverse hydro conditions are routinely assumed for forecast years by most systems. Data for actual year can be greater than for forecast years if median hydro occurred.
o/ Pumped storage output is greater than input due to pumped storage facilities being in combination with California reservoirs which are not disaggregated.



Fossil Fuels

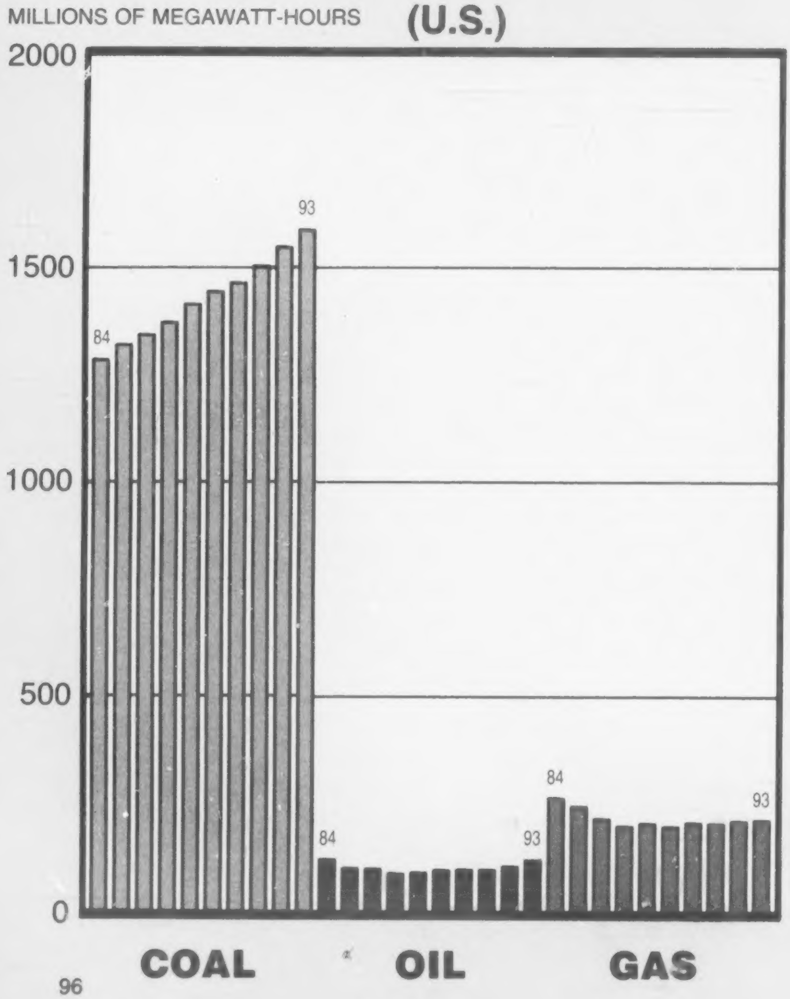
The *Estimated Fossil Fuel Requirements* data provides a tabulation of fuel burned for 1983 and that expected to be burned for the 1984-1993 period for electric energy generation by coal, oil, and natural gas.

The changes in the fossil fuel requirements projected over the next ten years in the U.S. are as follows: total *Coal* expanding by 27.7% from 646,317,000 tons in 1984 to 825,614,000 tons in 1993; total *Oil* increasing by 1.3% from 220,904,000 barrels in 1984 to 223,746,000 barrels in 1993; and *Natural Gas* dropping by 19.6% from 2,809,090 MMCF in 1984 to 2,257,982 MMCF in 1993.

While the energy generated from gas is expected to decline slowly but steadily over the next ten years, the data indicate that generation from oil use reaches a minimum in 1987 and then begins to climb back up again through 1993.

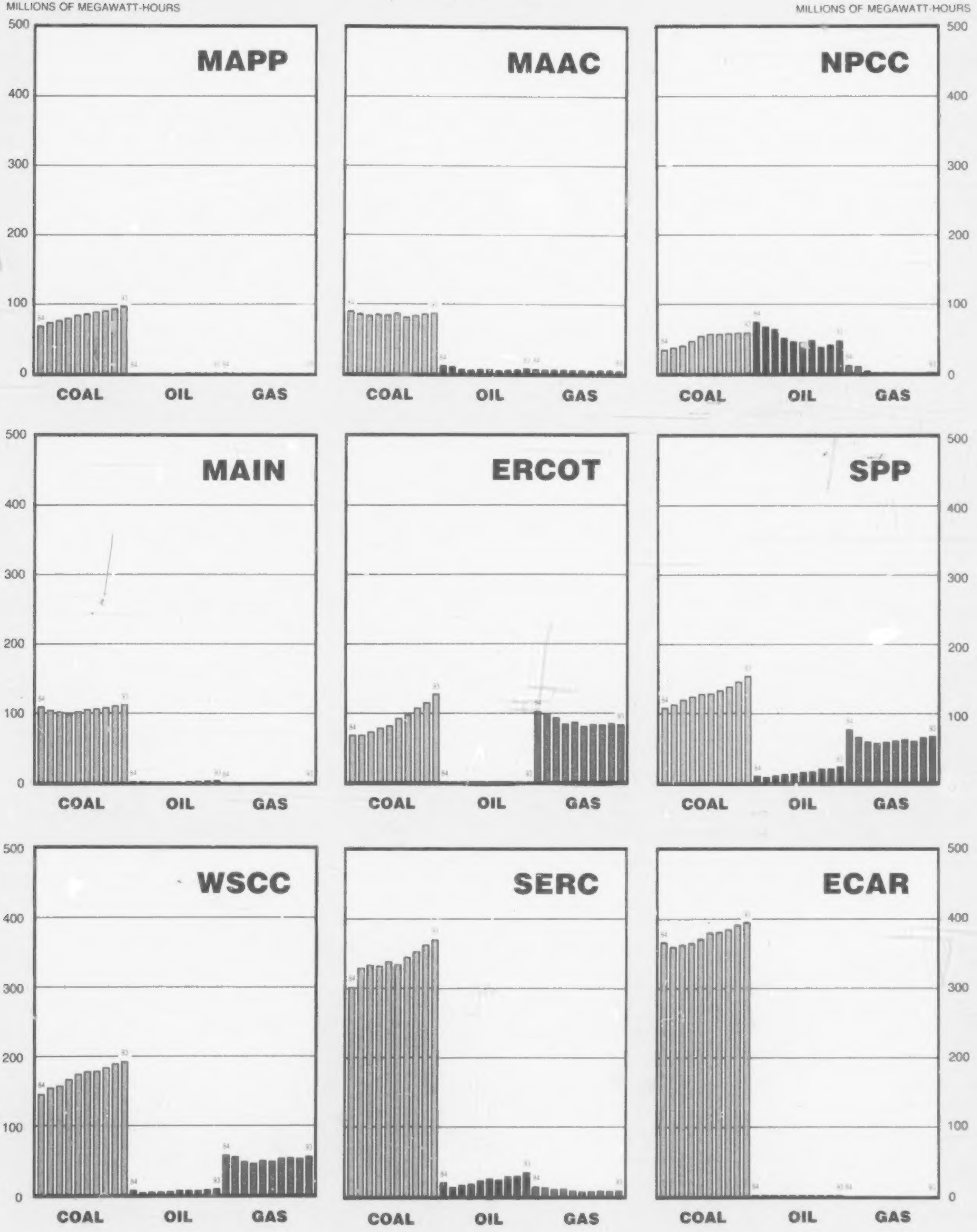
In Canada, coal use increases by 12.5% from 35,582,000 tons in 1984 to 40,034,000 tons in 1993 while oil and gas account for very little generation.

NERC Generation by Fossil Fuels



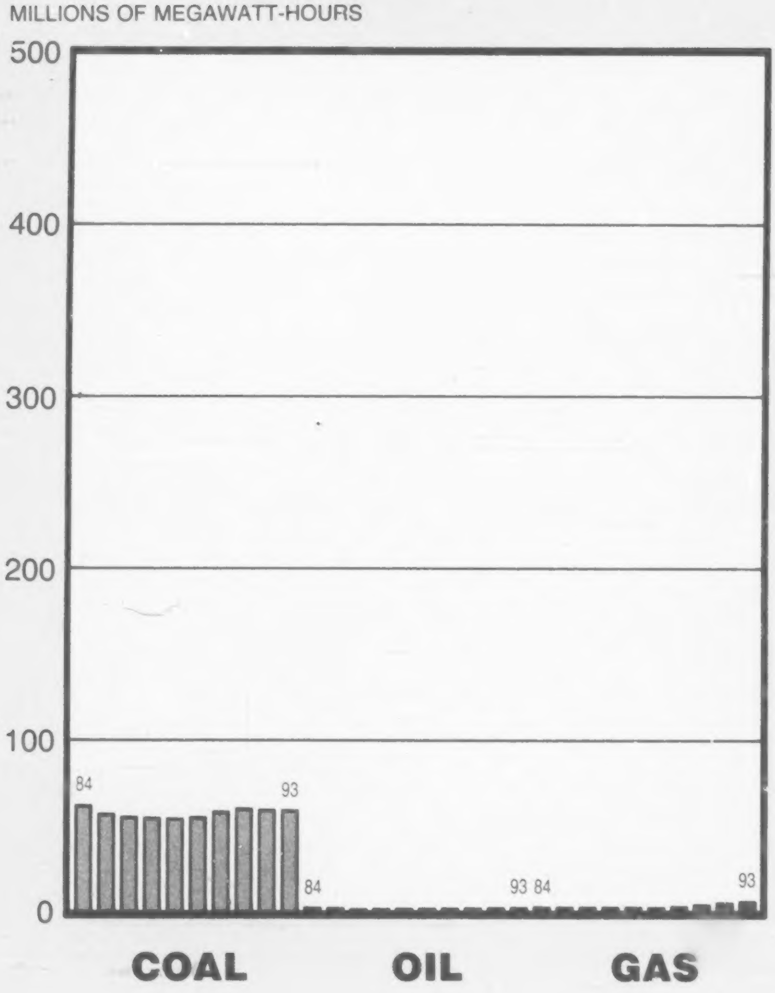
NERC Regional Generation by Fossil Fuels

(U.S.)



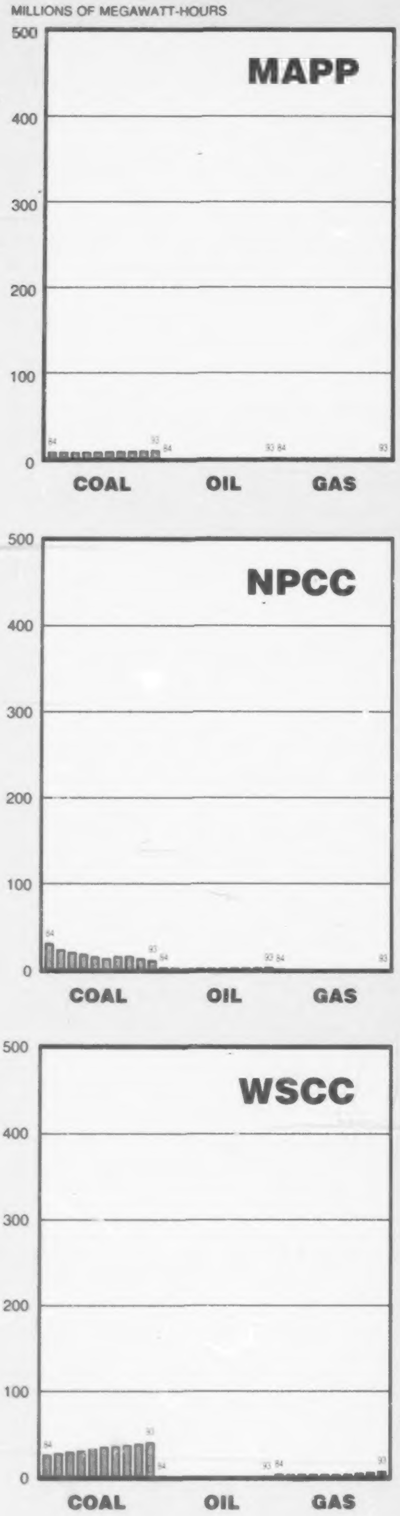
NERC ***Generation by Fossil Fuels***

(Canada)



NERC ***Regional Generation by Fossil Fuels***

(Canada)



FOSSIL FUELS—COAL

TOTAL COAL (1000 Tons)

TABLE 12

REGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
ECAR	161,661	172,226	169,232	170,877	172,148	175,088	179,130	179,601	181,461	184,328	186,124
ERCOT	52,247	51,396	51,415	55,433	59,788	63,143	73,629	78,366	86,841	93,378	102,732
MAAC	38,537	36,673	35,072	34,312	34,578	34,538	35,303	33,208	34,178	35,025	35,332
MAIN	58,694	55,729	53,312	52,570	50,781	52,722	54,343	54,944	55,770	56,902	57,783
MAPP—U.S.	48,744	45,592	49,088	51,186	53,308	56,062	57,357	58,928	58,539	63,022	65,386
NPCC—U.S.	13,151	14,023	15,112	16,279	19,116	22,056	23,156	23,161	23,529	23,713	23,670
SERC	116,164	125,266	136,017	137,934	137,450	140,034	137,900	142,306	145,549	149,405	152,417
SPP	62,450	65,595	69,564	73,869	76,527	78,725	79,062	81,876	85,290	91,264	97,072
WSCC—U.S.	69,409	79,817	85,247	86,700	91,752	95,563	97,542	97,922	100,535	103,617	105,098
NERC—U.S.	621,057	646,317	664,059	679,160	695,448	717,931	737,422	750,312	771,692	800,654	825,614
MAPP—CANADA	7,406	7,240	7,326	6,843	7,310	7,560	7,814	8,077	8,340	8,630	9,012
NPCC—CANADA	13,899	10,988	8,542	7,369	6,504	5,428	4,417	5,148	5,228	4,374	3,647
WSCC—CANADA	15,264	17,354	18,468	19,805	20,706	22,347	23,776	24,349	25,199	26,277	27,375
NERC—CANADA	36,569	35,582	34,336	34,017	34,520	35,335	36,007	37,574	38,767	39,281	40,034

SUBREGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
NEW YORK	8,690	8,914	9,457	10,507	12,798	14,724	15,200	15,205	15,339	15,601	15,558
NEW ENGLAND	4,461	5,109	5,655	5,772	6,318	7,332	7,956	7,956	8,190	8,112	8,112
NPCC—U.S.	13,151	14,023	15,112	16,279	19,116	22,056	23,156	23,161	23,529	23,713	23,670
NEW BRUNSWICK	622	601	600	594	595	596	597	598	598	594	607
ONTARIO	13,277	10,387	7,942	6,775	5,909	4,832	3,820	4,550	4,630	3,780	3,040
QUÉBEC	0	0	0	0	0	0	0	0	0	0	0
NPCC—CANADA	13,899	10,988	8,542	7,369	6,504	5,428	4,417	5,148	5,228	4,374	3,647
FLORIDA	9,757	12,812	17,379	17,669	19,298	20,852	21,538	21,820	22,211	23,713	24,404
SOUTHERN	41,187	44,425	49,888	51,285	48,452	48,196	47,116	48,589	50,722	49,889	47,622
TVA	28,957	29,023	30,888	33,614	33,228	33,560	33,155	33,834	32,923	33,701	34,910
VACAR	36,263	39,006	37,862	35,366	36,472	37,426	36,091	38,063	39,693	42,102	45,481
SERC	116,164	125,266	136,017	137,934	137,450	140,034	137,900	142,306	145,549	149,405	152,417
GROUP A	14,577	13,594	15,876	16,890	17,321	17,352	17,242	17,490	17,744	18,953	21,274
GROUP B	22,399	24,964	28,096	30,294	32,431	33,776	34,204	36,272	38,822	42,394	45,329
GROUP C	25,474	27,037	25,592	26,685	26,775	27,597	27,616	28,114	28,724	29,917	30,469
SPP	62,450	65,595	69,564	73,869	76,527	78,725	79,062	81,876	85,290	91,264	97,072
NWPP—U.S.	23,739	29,483	33,912	33,239	35,957	37,099	37,034	36,615	37,642	38,260	38,270
RMPA	12,519	15,681	16,152	17,191	17,807	18,542	19,337	20,238	20,974	21,759	22,489
AZ-NM	21,252	21,701	22,759	23,179	23,513	24,474	25,592	25,771	25,885	26,445	26,831
CA-SNV	11,899	12,952	12,424	13,091	14,475	15,448	15,579	15,298	16,034	17,153	17,508
WSCC—U.S.	69,409	79,817	85,247	86,700	91,752	95,563	97,542	97,922	100,535	103,617	105,098

FOSSIL FUELS—COAL

WESTERN [a] LIGNITE (1000 Tons)

TABLE 12

REGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
ECAR [b]	—	—	—	—	—	—	—	—	—	—	—
ERCOT	33,834	33,868	33,869	37,716	40,411	44,030	54,858	59,497	66,827	70,631	75,147
MAAC	0	0	0	0	0	0	0	0	0	0	0
MAIN	0	0	0	0	0	0	0	0	0	0	0
MAPP—U.S.	15,470	15,087	16,851	18,783	19,558	20,221	20,642	20,927	21,729	22,471	24,313
NPCC—U.S.	0	0	0	0	0	0	0	0	0	0	0
SERC	0	0	0	0	0	0	0	0	0	0	0
SPP	0	0	2,215	4,599	5,074	5,204	5,335	5,269	5,719	8,333	8,288
WSCC—U.S.	0	0	0	0	0	0	0	0	0	0	0
NERC—U.S.	49,304	48,955	52,935	61,098	65,043	69,455	80,835	85,693	94,275	101,435	107,748
MAPP—CANADA	7,341	7,210	7,326	6,843	7,310	7,560	7,814	3,077	8,340	8,630	9,012
NPCC—CANADA	596	600	592	601	591	589	550	550	550	440	330
WSCC—CANADA	0	0	0	0	0	0	0	0	0	0	0
NERC—CANADA	7,937	7,810	7,918	7,444	7,901	8,149	8,364	8,627	8,890	9,070	9,342

SUBREGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
NEW YORK	0	0	0	0	0	0	0	0	0	0	0
NEW ENGLAND	0	0	0	0	0	0	0	0	0	0	0
NPCC—U.S.	0	0	0	0	0	0	0	0	0	0	0
NEW BRUNSWICK	0	0	0	0	0	0	0	0	0	0	0
ONTARIO	596	600	592	601	591	589	550	550	550	440	330
QUÉBEC	0	0	0	0	0	0	0	0	0	0	0
NPCC—CANADA	596	600	592	601	591	589	550	550	550	440	330
FLORIDA	0	0	0	0	0	0	0	0	0	0	0
SOUTHERN	0	0	0	0	0	0	0	0	0	0	0
TVA	0	0	0	0	0	0	0	0	0	0	0
VACAR	0	0	0	0	0	0	0	0	0	0	0
SERC	0	0	0	0	0	0	0	0	0	0	0
GROUP A	0	0	0	907	1,171	1,301	1,301	1,236	1,301	1,301	1,171
GROUP B	0	0	2,215	3,692	3,903	3,903	4,034	4,033	4,418	7,032	7,117
GROUP C	0	0	0	0	0	0	0	0	0	0	0
SPP	0	0	2,215	4,599	5,074	5,204	5,335	5,269	5,719	8,333	8,288
NWPP—U.S.	0	0	0	0	0	0	0	0	0	0	0
RMPA	0	0	0	0	0	0	0	0	0	0	0
AZ-NM	0	0	0	0	0	0	0	0	0	0	0
CA-SNV	0	0	0	0	0	0	0	0	0	0	0
WSCC—U.S.	0	0	0	0	0	0	0	0	0	0	0

FOSSIL FUELS—COAL

WESTERN [a] ***COAL*** (1000 Tons)

TABLE 12

REGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
ECAR [b]	—	—	—	—	—	—	—	—	—	—	—
ERCOT	18,413	17,528	17,546	17,717	19,377	19,113	18,771	18,869	20,014	22,719	27,301
MAAC	0	0	0	0	0	0	0	0	0	0	0
MAIN	22,526	19,966	18,456	18,102	17,411	18,402	19,334	19,533	20,092	20,087	21,986
MAPP—U.S.	30,322	27,201	28,635	28,618	29,826	31,953	32,498	33,617	32,522	36,150	36,833
NPCC—U.S.	0	0	0	0	0	0	0	0	0	0	0
SERC	1,666	1,561	1,611	1,591	1,592	1,616	1,600	1,600	1,600	1,600	1,600
SPP	58,798	60,774	62,462	64,291	65,860	67,893	68,165	70,816	72,804	76,124	81,272
WSCC—U.S.	69,409	79,817	85,247	86,700	91,752	95,563	97,542	97,922	100,535	103,617	105,098
NERC—U.S.	201,134	206,847	213,957	217,019	225,818	234,540	237,910	242,357	247,567	260,297	274,090
MAPP—CANADA	65	30	0	0	0	0	0	0	0	0	0
NPCC—CANADA	1,733	1,682	1,660	1,857	1,858	1,498	1,040	1,510	1,540	1,550	0
WSCC—CANADA	15,264	17,354	18,468	19,805	20,706	22,347	23,776	24,349	25,199	26,277	27,375
NERC—CANADA	17,062	19,066	20,128	21,662	22,564	23,845	24,816	25,859	26,739	27,827	27,375

SUBREGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
NEW YORK	0	0	0	0	0	0	0	0	0	0	0
NEW ENGLAND	0	0	0	0	0	0	0	0	0	0	0
NPCC—U.S.	0	0	0	0	0	0	0	0	0	0	0
NEW BRUNSWICK	0	0	0	0	0	0	0	0	0	0	0
ONTARIO	1,733	1,682	1,660	1,857	1,858	1,498	1,040	1,510	1,540	1,550	0
QUÉBEC	0	0	0	0	0	0	0	0	0	0	0
NPCC—CANADA	1,733	1,682	1,660	1,857	1,858	1,498	1,040	1,510	1,540	1,550	0
FLORIDA	0	0	0	0	0	0	0	0	0	0	0
SOUTHERN	1,666	1,561	1,611	1,591	1,592	1,616	1,600	1,600	1,600	1,600	1,600
TVA	0	0	0	0	0	0	0	0	0	0	0
VACAR	0	0	0	0	0	0	0	0	0	0	0
SERC	1,666	1,561	1,611	1,591	1,592	1,616	1,600	1,600	1,600	1,600	1,600
GROUP A	14,577	13,594	15,876	15,983	16,150	16,051	15,941	16,254	16,443	17,652	20,103
GROUP B	22,399	24,964	25,881	26,529	27,868	29,213	29,510	31,418	32,475	33,352	35,585
GROUP C	21,822	22,216	20,705	21,779	21,842	22,629	22,714	23,144	23,886	25,120	25,584
SPP	58,798	60,774	62,462	64,291	65,860	67,893	68,165	70,816	72,804	76,124	81,272
NWPP—U.S.	23,739	29,483	33,912	33,239	35,957	37,099	37,034	36,615	37,642	38,260	38,270
RMPA	12,519	15,681	16,152	17,191	17,807	18,542	19,337	20,238	20,974	21,759	22,489
AZ-NM	21,252	21,701	22,759	23,179	23,513	24,474	25,592	25,771	25,885	26,445	26,831
CA-SNV	11,899	12,952	12,424	13,091	14,475	15,448	15,579	15,298	16,034	17,153	17,508
WSCC—U.S.	69,409	79,817	85,247	86,700	91,752	95,563	97,542	97,922	100,535	103,617	105,098

FOSSIL FUELS—COAL
OTHER COAL (1000 Tons)

TABLE 12

REGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
ECAR [b]	—	—	—	—	—	—	—	—	—	—	—
ERCOT	0	0	0	0	0	0	0	0	0	28	284
MAAC	38,537	36,673	35,072	34,312	34,578	34,538	35,303	33.208	34,178	35,025	35,332
MAIN	36,168	35.763	34,856	34,468	33,370	34,320	35.009	35.411	35,678	36,615	35,797
MAPP—U.S.	2,952	3,304	3,602	3,785	3,924	3,888	4,217	4,384	4,288	4.401	4,240
NPCC—U.S.	13,151	14,023	15,112	16,279	19,116	22,056	23,156	23.161	23,529	23,713	23,670
SERC	114,498	123,705	134,406	136,343	135,858	138.418	136.300	140,706	143.949	147,805	150,817
SPP	3,652	4,821	4.887	4,979	5,593	5.628	5,562	5,791	6,767	6,807	7,512
WSCC—U.S.	0	0	0	0	0	0	0	0	0	0	0
NERC—U.S.	208,958	218,289	227,935	230,166	232,439	238,848	239.547	242,661	248.389	254,594	257,652
MAPP—CANADA	0	0	0	0	0	0	0	0	0	0	0
NPCC—CANADA	11,570	8,706	6.290	4,911	4,055	3,341	2,827	3,088	3,138	2,384	3,317
WSCC—CANADA	0	0	0	0	0	0	0	0	0	0	0
NERC—CANADA	11,570	8,706	6,290	4,911	4,055	3,341	2.827	3.088	3,138	2.384	3,317

SUBREGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
NEW YORK	8,690	8,914	9,457	10.507	12.798	14,724	15,200	15,205	15,339	15,601	15,558
NEW ENGLAND	4,461	5,109	5,655	5,772	6,318	7,332	7,956	7,956	8,190	8,112	8,112
NPCC—U.S.	13,151	14,023	15,112	16,279	19,116	22.056	23.156	23,161	23,529	23,713	23,670
NEW BRUNSWICK	622	601	600	594	593	596	597	598	598	594	607
ONTARIO	10,948	8,105	5,690	4.317	3,460	2,745	2,230	2,490	2,540	1,790	2,710
QUÉBEC	0	0	0	0	0	0	0	0	0	0	0
NPCC—CANADA	11,570	8,706	6,290	4,911	4,055	3,341	2,827	3.088	3.138	2,384	3,317
FLORIDA	9,757	12,812	17,379	17,669	19,298	20,852	21,538	21,820	22,211	23,713	24,404
SOUTHERN	39,521	42,864	48,277	49,694	46,860	46,580	45,516	46,989	49,122	48,289	46,022
TVA	28,957	29,023	30,888	33,614	33,228	33,560	33,155	33.834	32.923	33,701	34,910
VACAR	36,263	39,906	37,862	35,366	36,472	37,426	36,091	38,063	39,693	42,102	45,481
SERC	114,498	23,705	34,406	36,343	35,858	38.418	36,300	40,706	43.949	47,805	50,817
GROUP A	0	0	0	0	0	0	0	0	0	0	0
GROUP B	0	0	0	73	660	660	660	821	1,929	2,010	2,627
GROUP C	3,652	4,821	4,887	4,906	4,933	4,968	4,902	4,970	4,838	4,797	4,885
SPP	3,652	4,821	4,887	4,979	5,593	5,628	5,562	5,791	6.767	6,807	7,512
NWPP—U.S.	0	0	0	0	0	0	0	0	0	0	0
RMPA	0	0	0	0	0	0	0	0	0	0	0
AZ-NM	0	0	0	0	0	0	0	0	0	0	0
CA-SNV	0	0	0	0	0	0	0	0	0	0	0
WSCC—U.S.	0	0	0	0	0	0	0	0	0	0	0

FOSSIL FUELS—OIL

TOTAL OIL (1000 Barrels)

TABLE 13

REGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
ECAR	4,566	4.490	4.865	4,490	4.290	4,720	4.820	4.500	4.600	5,100	5,150
ERCOT	3,533	1,060	1,058	1,026	1,028	1,062	1,152	1,147	1,164	1,277	1,439
MAAC	39,013	20,587	17,630	12,083	10,955	11,715	12.157	9,759	10,788	12,534	15,085
MAIN	7,021	3.426	3.321	2.679	1,947	2,104	2,545	3.304	4,037	5,122	5,995
MAPP—U.S.	1,325	1,384	1,589	1,676	1,794	684	818	840	919	1,253	940
NPCC—U.S.	112,109	126,767	116.052	110,000	89,470	80.722	78.656	83.414	66,566	72.502	81,443
SERC	53,356	35.378	24,926	30.011	32.774	40.525	45.451	42.578	50.328	51,184	59,503
SPP	1,894	17,247	13.934	17,788	21,046	22,498	26.039	27.389	35,143	36,005	40,470
WSCC—U.S.	10,146	10,565	5.167	6.341	6,775	8.114	11,263	11.033	10,666	12,346	13,721
NERC—U.S.	232,963	220,904	188,542	186,094	170,079	172,144	182.901	183,964	184,211	197,323	223,746
MAPP—CANADA	139	90	142	142	142	142	142	142	142	142	142
NPCC—CANADA	3,743	3.582	3.260	2,258	2,426	2,571	2,546	2,745	2.935	3,265	3,474
WSCC—CANADA	0	0	0	0	0	0	0	0	0	0	0
NERC—CANADA	3,882	3,672	3,402	2,400	2.568	2,713	2.688	2,887	3,077	3,407	3,616

SUBREGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
NEW YORK	57,900	60.810	55,217	56.159	43.373	37.560	37.994	38.402	40.518	42,978	47.227
NEW ENGLAND	54,209	65,957	60,835	53,841	46.097	43.162	40.662	45.012	26,048	29,524	34,216
NPCC—U.S.	112,109	126,767	116,052	110,000	89.470	80.722	78.656	83.414	66,566	72.502	81,443
NEW BRUNSWICK	3,402	3.324	3,015	2,045	2,259	2,403	2.543	2,728	2,866	3,106	3,248
ONTARIO	305	256	200	177	158	138	1	1	2	1	1
QUÉBEC	36	2	45	36	9	30	2	16	67	158	225
NPCC—CANADA	3,743	3,582	3,260	2,258	2,426	2,571	2,546	2,745	2,935	3,265	3,474
FLORIDA	49,365	29,325	17,087	21,394	24,414	31,974	34.017	35.601	43.035	42,170	51,776
SOUTHERN	264	771	1,105	1,304	886	853	795	812	984	937	847
TVA	474	407	752	1,005	1,149	1,184	1,174	1,383	1,187	1,354	1,630
VACAR	3,253	4,875	5,982	6.308	6,325	6,514	9.465	4,782	5,122	6,723	5,250
SERC	53,356	35,378	24,926	30,011	32,774	40,525	45,451	42,578	50,328	51,184	59,503
GROUP A	893	16,657	13,424	17,199	20,437	21,944	24.740	25.862	31,425	32,160	36,526
GROUP B	385	138	161	170	171	171	797	946	2,987	3,244	3,244
GROUP C	616	452	349	419	438	383	502	581	731	601	700
SPP	1,894	17,247	13,934	17,788	21.046	22,498	26.039	27.389	35,143	36,005	40,470
NWPP—U.S.	1	0	0	0	0	677	674	674	674	677	674
RMPA	89	54	48	52	61	66	65	95	102	108	122
AZ-NM	889	548	367	162	390	485	578	1,542	1,784	1,924	1,995
CA-SNV	9,167	9.963	4,752	6,127	6,324	6,886	9,946	8.722	8.106	9,637	10,930
WSCC—U.S.	10,146	10,565	5.167	6.341	6.775	8,114	11,263	11,033	10,666	12,346	13,721

FOSSIL FUELS—OIL

TOTAL DISTILLATE[c] **OIL** (1000 Barrels)

TABLE 13

REGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
ECAR	3,409	3,350	3.350	3.350	3,150	3,100	3.100	3.100	3.100	3,150	3,200
ERCOT	1,677	606	599	602	607	629	716	708	751	867	1,027
MAAC	4,189	870	855	651	643	664	670	622	665	698	782
MAIN	926	802	934	828	815	830	831	930	973	1,178	1,401
MAPP—U.S.	457	476	626	691	788	583	722	738	813	1,095	862
NPCC—U.S.	1,056	2,073	2,468	1,468	1,559	1,525	1,490	1,373	1,051	1,387	1,450
SERC	2,139	2,992	3.691	4.069	4.003	4,018	4,577	4.270	4.148	4,513	4,962
SPP	974	2,327	2.031	2,455	2.752	3,480	3.551	4,012	9,383	9,215	13,224
WSCC—U.S.	438	803	948	721	710	222	1,973	2,186	1,310	1,440	1,795
NERC—U.S.	15,265	14,299	15.502	14.835	15,027	16,051	17,630	17,939	22.194	23,543	28,703
MAPP—CANADA	139	90	142	142	142	142	142	142	142	142	142
NPCC—CANADA	254	226	173	150	128	108	0	0	3	14	27
WSCC—CANADA	0	0	0	0	0	0	0	0	0	0	0
NERC—CANADA	393	316	315	292	270	250	142	142	145	156	169

SUBREGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
NEW YORK	384	912	1,324	347	623	656	730	599	239	246	293
NEW ENGLAND	672	1,161	1,144	1,121	936	869	760	774	812	1,141	1,157
NPCC—U.S.	1,056	2,073	2,468	1,468	1,559	1,525	1,490	1,373	1,051	1,387	1,450
NEW BRUNSWICK	0	0	0	0	0	0	0	0	0	0	0
ONTARIO	252	226	170	147	128	108	0	0	0	0	0
QUÉBEC	2	0	3	3	0	0	0	0	3	14	27
NPCC—CANADA	254	226	173	150	128	108	0	0	3	14	27
FLORIDA	700	169	74	72	100	147	171	169	188	192	275
SOUTHERN	141	509	676	841	608	611	577	592	669	652	640
TVA	474	407	752	1,005	1,149	1,184	1,174	1,383	1,187	1,354	1,630
VACAR	824	1,907	2,189	2.151	2.146	2,076	2,655	2,126	2,104	2,315	2,417
SERC	2,139	2,992	3.691	4,069	4,003	4.018	4,577	4,270	4,148	4,513	4,962
GROUP A	511	1,754	1,538	1.882	2,161	2,977	2.972	3,041	8.007	7,600	11,511
GROUP B	122	138	160	170	171	171	171	471	771	1,171	1,171
GROUP C	341	435	333	403	420	332	408	500	605	444	542
SPP	974	2,327	2.031	2,455	2,752	3.480	3.551	4.012	9,383	9.215	13,224
NWPP—U.S.	0	0	0	0	0	470	470	470	470	470	470
RMPA	89	3	3	4	4	5	5	5	5	4	5
AZ-NM	176	130	200	141	130	170	177	225	255	381	441
CA-SNV	173	670	745	576	576	577	1,321	1,486	580	585	879
WSCC—U S.	438	803	948	721	710	1,222	1,973	2.186	1,310	1,440	1,795

FOSSIL FUELS—OIL

DISTILLATE[c] ***OIL—STEAM*** (1000 Barrels) TABLE 13

REGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
ECAR[d]	2,059	2,000	2,000	2,000	1,800	1,750	1,750	1,750	1,750	1,750	1,750
ERCOT	1,545	602	596	601	606	628	715	707	750	866	1,026
MAAC	1,204	497	509	482	482	500	485	494	519	521	538
MAIN	723	610	621	689	670	682	683	689	691	697	700
MAPP—U.S.	174	168	191	200	203	201	201	202	226	246	229
NPCC—U.S.	178	215	198	175	150	140	133	147	83	93	109
SERC	1,124	2,260	2,395	2,576	2,562	2,427	2,616	2,631	2,678	2,810	2,874
SPP	766	2,032	1,827	2,188	2,460	3,287	3,269	3,329	8,267	7,836	11,716
WSCC—U.S.	181	68	35	37	48	76	90	134	132	183	255
NERC—U.S.	7,954	8,452	8,372	8,948	8,981	9,691	9,942	10,083	15,096	15,002	19,197
MAPP—CANADA	139	90	142	142	142	142	142	142	142	142	142
NPCC—CANADA	248	224	168	145	126	106	0	0	0	0	0
WSCC—CANADA	0	0	0	0	0	0	0	0	0	0	0
NERC—CANADA	387	314	310	287	268	248	142	142	142	142	142

SUBREGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
NEW YORK	0	0	0	0	0	0	0	0	0	0	0
NEW ENGLAND	178	215	198	175	150	140	133	147	83	93	109
NPCC—U.S.	178	215	198	175	150	140	133	147	83	93	109
NEW BRUNSWICK	0	0	0	0	0	0	0	0	0	0	0
ONTARIO	248	224	168	145	126	106	0	0	0	0	0
QUÉBEC	0	0	0	0	0	0	0	0	0	0	0
NPCC—CANADA	248	224	16[illegible]	145	126	106	0	0	0	0	0
FLORIDA	16	0	0	0	0	0	0	0	0	0	0
SOUTHERN	101	444	470	478	497	503	559	554	587	583	584
TVA	348	313	332	361	357	361	357	364	354	362	374
VACAR	659	1,503	1,593	1,737	1,708	1,563	1,700	1,713	1,737	1,865	1,916
SERC	1,124	2,260	2,395	2,576	2,562	2,427	2,616	2,631	2,678	2,810	2,874
GROUP A	497	1,754	1,538	1,881	2,159	2,974	2,963	3,013	7,954	7,518	11,394
GROUP B	81	100	122	132	133	133	133	133	133	133	133
GROUP C	188	178	167	175	168	180	173	183	180	185	189
SPP	766	2,032	1,827	2,188	2,460	3,287	3,269	3,329	8,267	7,836	11,716
NWPP—U.S.	0	0	0	0	0	0	0	0	0	0	0
RMPA	86	1	1	2	2	2	2	2	2	2	2
AZ-NM	95	67	34	35	46	74	88	132	130	181	253
CA-SNV	0	0	0	0	0	0	0	0	0	0	0
WSCC—U.S.	181	68	35	37	48	76	90	134	132	183	255

CONTINUED

FOSSIL FUELS—OIL

DISTILLATE[c] OIL—COMBUSTION[e] TURBINE (1000 Barrels)

TABLE 13

REGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
ECAR	1,350	1,350	1,350	1,350	1,350	1,350	1,350	1,350	1,350	1,400	1,450
ERCOT	117	0	0	0	0	0	0	0	0	0	0
MAAC	2,854	281	250	102	107	108	133	110	127	157	182
MAIN	203	192	313	139	145	148	148	241	282	481	701
MAPP—U.S.	283	307	434	490	583	381	520	535	586	848	632
NPCC—U.S.	564	1,142	1,554	577	795	771	845	714	354	476	523
SERC	1,008	732	1,296	1,493	1,441	1,591	1,961	1,639	1,470	1,703	2,088
SPP	208	295	204	267	292	193	282	683	1,116	1,379	1,508
WSCC—U.S.	252	707	848	665	643	1,127	1,864	2,039	1,165	1,246	1,531
NERC—U.S.	6,839	5,006	6,249	5,083	5,356	5,669	7,103	7,311	6,450	7,690	8,615
MAPP—CANADA	0	0	0	0	0	0	0	0	0	0	0
NPCC—CANADA	6	2	5	5	2	2	0	0	3	14	27
WSCC—CANADA	0	0	0	0	0	0	0	0	0	0	0
NERC—CANADA	6	2	5	5	2	2	0	0	3	14	27

SUBREGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
NEW YORK	384	912	1,324	347	623	656	730	599	239	246	293
NEW ENGLAND	180	230	230	230	172	115	115	115	115	230	230
NPCC—U.S.	564	1,142	1,554	577	795	771	845	714	354	476	523
NEW BRUNSWICK	0	0	0	0	0	0	0	0	0	0	0
ONTARIO	4	2	2	2	2	2	0	0	0	0	0
QUÉBEC	2	0	3	3	0	0	0	0	3	14	27
NPCC—CANADA	6	2	5	5	2	2	0	0	3	14	27
FLORIDA	677	169	74	72	100	147	171	169	188	192	275
SOUTHERN	40	65	206	363	111	108	18	38	82	69	56
TVA	126	94	420	644	792	823	817	1,019	833	992	1,256
VACAR	165	404	596	414	438	513	955	413	367	450	501
SERC	1,008	732	1,296	1,493	1,441	1,591	1,961	1,639	1,470	1,703	2,088
GROUP A	14	0	0	1	2	3	9	28	53	82	117
GROUP B	41	38	38	38	38	38	38	338	638	1,038	1,038
GROUP C	153	257	166	228	252	152	235	317	425	259	353
SPP	208	295	204	267	292	193	282	683	1,116	1,379	1,508
NWPP—U.S.	0	0	0	0	0	470	470	470	470	470	470
RMPA	3	2	2	2	2	3	3	3	3	2	3
AZ-NM	81	61	127	106	84	96	89	93	125	200	188
CA-SNV	168	644	719	557	557	558	1,302	1,473	567	574	870
WSCC—U.S.	252	707	848	665	643	1,127	1,864	2,039	1,165	1,246	1,531

DISTILLATE[c] **OIL—COMBINED CYCLE** (1000 Barrels)

TABLE 13

REGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
ECAR	0	0	0	0	0	0	0	0	0	0	0
ERCOT	15	4	3	1	1	1	1	1	1	1	1
MAAC	131	92	96	67	54	56	52	18	19	20	62
MAIN	0	0	0	0	0	0	0	0	0	0	0
MAPP—U.S.	0	1	1	1	2	1	1	1	1	1	1
NPCC—U.S.	314	716	716	716	614	614	512	512	614	818	818
SERC	7	0	0	0	0	0	0	0	0	0	0
SPP	0	0	0	0	0	0	0	0	0	0	0
WSCC—U.S.	5	28	65	19	19	19	19	13	13	11	9
NERC—U.S.	472	841	881	804	690	691	585	545	648	851	891
MAPP—CANADA	0	0	0	0	0	0	0	0	0	0	0
NPCC—CANADA	0	0	0	0	0	0	0	0	0	0	0
WSCC—CANADA	0	0	0	0	0	0	0	0	0	0	0
NERC—CANADA	0	0	0	0	0	0	0	0	0	0	0

SUBREGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
NEW YORK	0	0	0	0	0	0	0	0	0	0	0
NEW ENGLAND	314	716	716	716	614	614	512	512	614	818	818
NPCC—U.S.	314	716	716	716	614	614	512	512	614	818	818
NEW BRUNSWICK	0	0	0	0	0	0	0	0	0	0	0
ONTARIO	0	0	0	0	0	0	0	0	0	0	0
QUÉBEC	0	0	0	0	0	0	0	0	0	0	0
NPCC—CANADA	0	0	0	0	0	0	0	0	0	0	0
FLORIDA	7	0	0	0	0	0	0	0	0	0	0
SOUTHERN	0	0	0	0	0	0	0	0	0	0	0
TVA	0	0	0	0	0	0	0	0	0	0	0
VACAR	0	0	0	0	0	0	0	0	0	0	0
SERC	7	0	0	0	0	0	0	0	0	0	0
GROUP A	0	0	0	0	0	0	0	0	0	0	0
GROUP B	0	0	0	0	0	0	0	0	0	0	0
GROUP C	0	0	0	0	0	0	0	0	0	0	0
SPP	0	0	0	0	0	0	0	0	0	0	0
NWPP—U.S.	0	0	0	0	0	0	0	0	0	0	0
RMPA	0	0	0	0	0	0	0	0	0	0	0
AZ-NM	0	2	39	0	0	0	0	0	0	0	0
CA-SNV	5	26	26	19	19	19	19	13	13	11	9
WSCC—U.S.	5	28	65	19	19	19	19	13	13	11	9

CONTINUED

FOSSIL FUELS—OIL
TOTAL RESIDUAL[1] OIL (1000 Barrels)

TABLE 13

REGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
ECAR	1,157	1,140	1,515	1,140	1,140	1,620	1,720	1,400	1,500	1,950	1,950
ERCOT	1,856	454	459	424	421	433	436	439	413	410	412
MAAC	34,824	19,717	16,775	11,432	10,312	11,051	11,487	9,137	10,123	11,836	14,303
MAIN	6,095	2,624	2.387	1,851	1,132	1,274	1,714	2.374	3,064	3,944	4,594
MAPP—U.S.	868	908	963	985	1,006	101	96	102	106	158	78
NPCC—U.S.	111,053	124,694	113,584	108,532	87,911	79.197	77.166	82,041	65,515	71,115	79,993
SERC	51,217	32,386	21,235	25,942	28,771	36.507	40,874	38,308	46,180	46,671	54,541
SPP	920	14,920	11,903	15,333	18,294	19,018	22.488	23,377	25,760	26,790	27,246
WSCC—U.S.	9,708	9,559	4,175	5,573	5,812	6,563	8,824	7,547	7,957	9,174	10,217
NERC—U.S.	217,698	206,402	172,996	171,212	154,799	155,764	164,805	164,725	160,618	172,048	193,334
MAPP—CANADA	0	0	0	0	0	0	0	0	0	0	0
NPCC—CANADA	3,489	3,356	3,087	2,108	2,298	2,463	2,546	2.745	2,932	3,251	3,447
WSCC—CANADA	0	0	0	0	0	0	0	0	0	0	0
NERC—CANADA	3,489	3,356	3,087	2,108	2,298	2,463	2,546	2,745	2,932	3,251	3,447

SUBREGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
NEW YORK	57,516	59,898	53,893	55,812	42,750	36,904	37.264	37,803	40,279	42,732	46,934
NEW ENGLAND	53,537	64,796	59,691	52,720	45,161	42,293	39.902	44.238	25,236	28,383	33,059
NPCC—U.S.	111,053	124,694	113,584	108,532	87,911	79,197	77,166	82,041	65,515	71,115	79,993
NEW BRUNSWICK	3,402	3,324	3,015	2,045	2,259	2,403	2,543	2,728	2,866	3,106	3,248
ONTARIO	53	30	30	30	30	30	1	1	2	1	1
QUÉBEC	34	2	42	33	9	30	2	16	64	144	198
NPCC—CANADA	3,489	3,356	3,087	2,108	2,298	2,463	2,546	2,745	2,932	3,251	3,447
FLORIDA	48,665	29,156	17,013	21,322	24,314	31,827	33,846	35,432	42,847	41,978	51,501
SOUTHERN	123	262	429	463	278	242	218	220	315	285	207
TVA	0	0	0	0	0	0	0	0	0	0	0
VACAR	2,429	2,968	3,793	4,157	4,179	4,438	6,810	2,656	3,018	4,408	2,833
SERC	51,217	32,386	21,235	25.942	28.771	36,507	40,874	38.308	46,180	46,671	54,541
GROUP A	382	14,903	11,886	15,317	18,276	18,967	21,768	22,821	23,418	24,560	25,015
GROUP B	263	0	1	0	0	0	626	475	2,216	2,073	2,073
GROUP C	275	17	16	16	18	51	94	81	126	157	158
SPP	920	14,920	11,903	15,333	18,294	19,018	22.488	23,377	25.760	26,790	27,246
NWPP—U.S.	1	0	0	0	0	207	204	204	204	207	204
RMPA	0	1	1	1	1	1	1	1	1	1	1
AZ-NM	713	265	167	21	114	62	96	223	257	66	63
CA-SNV	8,994	9,293	4,007	5,551	5,697	6,293	8,523	7,119	7,495	8,900	9,949
WSCC—U.S.	9,708	9,559	4,175	5,573	5,812	6,563	8,824	7,547	7.957	9,174	10,217

CONTINUED

FOSSIL FUELS—OIL

RESIDUAL[1] OIL—STEAM (1000 Barrels)

TABLE 13

REGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
ECAR	1 157	1,140	1,515	1,140	1,140	1,620	1.720	1.400	1.500	1,950	1,950
ERCOT	1,856	454	459	424	421	433	436	439	413	410	412
MAAC	34,824	19,717	16,775	11,432	10.312	11,051	11,487	9.137	10,123	11,836	14,303
MAIN	6,095	2,624	2.386	1,850	1,131	1,273	1.713	2.373	3,063	3,943	4,593
MAPP—U.S.	865	898	955	973	999	94	86	91	100	143	70
NPCC—U.S.	110,845	124,220	113,110	108,058	87,505	78.791	76,828	81,703	65.109	70,573	79,451
SERC	50,913	32,039	20,939	25,624	28,446	36.168	40.530	37,962	45,812	46,305	54,133
SPP	920	14,428	10,990	15.211	18,029	18.763	21,366	22.306	22,938	24,020	24,448
WSCC—U.S.	9,706	9,559	4,175	5,573	5,812	6,563	8.824	7,547	7,957	9.174	10,217
NERC—U.S.	217,181	205,079	171,304	170,285	153,795	154,756	162,990	162.958	157,015	168,354	189,577
MAPP—CANADA	0	0	0	0	0	0	0	0	0	0	0
NPCC—CANADA	3,488	3,356	3.087	2,108	2,298	2,463	2.546	2.745	2,932	3,251	3,447
WSCC—CANADA	0	0	0	0	0	0	0	0	0	0	0
NERC—CANADA	3,488	3,356	3,087	2,108	2,298	2.463	2.546	2,745	2,932	3,251	3,447

SUBREGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
NEW YORK	57,516	59,898	53,893	55,812	42,750	36,904	37,264	37,803	40,279	42,732	46,934
NEW ENGLAND	53,329	64,322	59,217	52,246	44,755	41,887	39.564	43.900	24.830	27,841	32,517
NPCC—U.S.	110,845	124,220	113,110	108,058	87,505	78,791	76,828	81,703	65,109	70,573	79,451
NEW BRUNSWICK	3,401	3,324	3,015	2,045	2,259	2,403	2,543	2,728	2,866	3,106	3,248
ONTARIO	53	30	30	30	30	30	1	1	2	1	1
QUÉBEC	34	2	42	33	9	30	2	16	64	144	198
NPCC—CANADA	3,488	3,356	3,087	2,108	2,298	2,463	2,546	2,745	2,932	3,251	3,447
FLORIDA	48,362	28,809	16,717	21,004	23,989	31,488	33,502	35,086	42,479	41,612	51,093
SOUTHERN	122	262	429	463	278	242	218	220	315	285	207
TVA	0	0	0	0	0	0	0	0	0	0	0
VACAR	2,429	2,968	3,793	4,157	4,179	4,438	6,810	2,656	3,018	4,408	2,833
SERC	50,913	32,039	20,939	25,624	28.446	36,168	40.530	37,962	45,812	46,305	54,133
GROUP A	382	14,411	10,973	15,195	18.011	18,712	21,272	22,225	22,812	23,863	24,290
GROUP B	263	0	1	0	0	0	0	0	0	0	0
GROUP C	275	17	16	16	18	51	94	81	126	157	158
SPP	920	14,428	10,990	15,211	18,029	18.763	21,366	22,306	22.938	24,020	24,448
NWPP—U.S.	1	0	0	0	0	207	204	204	204	207	204
RMPA	0	1	1	1	1	1	1	1	1	1	1
AZ-NM	711	265	167	21	114	62	96	223	257	66	63
CA-SNV	8,994	9,293	4,007	5,551	5,697	6,293	8,523	7,119	7,495	8,900	9,949
WSCC—U.S.	9,706	9,559	4,175	5,573	5,812	6,563	8.824	7,547	7,957	9,174	10,217

CONTINUED

FOSSIL FUELS—OIL

RESIDUAL OIL—COMBUSTION TURBINE (1000 Barrels)

TABLE 13

REGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
ECAR	0	0	0	0	0	0	0	0	0	0	0
ERCOT	0	0	0	0	0	0	0	0	0	0	0
MAAC	0	0	0	0	0	0	0	0	0	0	0
MAIN	0	0	1	1	1	1	1	1	1	1	1
MAPP—U.S.	3	10	8	12	7	7	10	11	6	15	8
NPCC—U.S.	0	0	0	0	0	0	0	0	0	0	0
SERC	283	347	296	318	325	339	344	346	368	366	408
SPP	0	0	0	0	0	0	626	475	2,216	2,073	2,073
WSCC—U.S.	0	0	0	0	0	0	0	0	0	0	0
NERC—U.S.	286	357	305	331	333	347	981	833	2,591	2,455	2,490
MAPP—CANADA	0	0	0	0	0	0	0	0	0	0	0
NPCC—CANADA	1	0	0	0	0	0	0	0	0	0	0
WSCC—CANADA	0	0	0	0	0	0	0	0	0	0	0
NERC—CANADA	1	0	0	0	0	0	0	0	0	0	0

SUBREGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
NEW YORK	0	0	0	0	0	0	0	0	0	0	0
NEW ENGLAND	0	0	0	0	0	0	0	0	0	0	0
NPCC—U.S.	0	0	0	0	0	0	0	0	0	0	0
NEW BRUNSWICK	1	0	0	0	0	0	0	0	0	0	0
ONTARIO	0	0	0	0	0	0	0	0	0	0	0
QUÉBEC	0	0	0	0	0	0	0	0	0	0	0
NPCC—CANADA	1	0	0	0	0	0	0	0	0	0	0
FLORIDA	282	347	296	318	325	339	344	346	368	366	408
SOUTHERN	1	0	0	0	0	0	0	0	0	0	0
TVA	0	0	0	0	0	0	0	0	0	0	0
VACAR	0	0	0	0	0	0	0	0	0	0	0
SERC	283	347	296	318	325	339	344	346	368	366	408
GROUP A	0	0	0	0	0	0	0	0	0	0	0
GROUP B	0	0	0	0	0	0	626	475	2,216	2,073	2,073
GROUP C	0	0	0	0	0	0	0	0	0	0	0
SPP	0	0	0	0	0	0	626	475	2,216	2,073	2,073
NWPP—U.S.	0	0	0	0	0	0	0	0	0	0	0
RMPA	0	0	0	0	0	0	0	0	0	0	0
AZ-NM	0	0	0	0	0	0	0	0	0	0	0
CA-SNV	0	0	0	0	0	0	0	0	0	0	0
WSCC—U.S.	0	0	0	0	0	0	0	0	0	0	0

RESIDUAL[1] OIL—COMBINED CYCLE (1000 Barrels)

TABLE 13

REGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
ECAR	0	0	0	0	0	0	0	0	0	0	0
ERCOT	0	0	0	0	0	0	0	0	0	0	0
MAAC	0	0	0	0	0	0	0	0	0	0	0
MAIN	0	0	0	0	0	0	0	0	0	0	0
MAPP—U.S.	0	0	0	0	0	0	0	0	0	0	0
NPCC—U.S.	208	474	474	474	406	406	338	338	406	542	542
SERC	21	0	0	0	0	0	0	0	0	0	0
SPP	0	492	913	122	265	255	496	596	606	697	725
WSCC—U.S.	2	0	0	0	0	0	0	0	0	0	0
NERC—U.S.	231	966	1,387	596	671	661	834	934	1,012	1,239	1,267
MAPP—CANADA	0	0	0	0	0	0	0	0	0	0	0
NPCC—CANADA	0	0	0	0	0	0	0	0	0	0	0
WSCC—CANADA	0	0	0	0	0	0	0	0	0	0	0
NERC—CANADA	0	0	0	0	0	0	0	0	0	0	0

SUBREGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
NEW YORK	0	0	0	0	0	0	0	0	0	0	0
NEW ENGLAND	208	474	474	474	406	406	338	338	406	542	542
NPCC—U.S.	208	474	474	474	406	406	338	338	406	542	542
NEW BRUNSWICK	0	0	0	0	0	0	0	0	0	0	0
ONTARIO	0	0	0	0	0	0	0	0	0	0	0
QUÉBEC	0	0	0	0	0	0	0	0	0	0	0
NPCC—CANADA	0	0	0	0	0	0	0	0	0	0	0
FLORIDA	21	0	0	0	0	0	0	0	0	0	0
SOUTHERN	0	0	0	0	0	0	0	0	0	0	0
TVA	0	0	0	0	0	0	0	0	0	0	0
VACAR	0	0	0	0	0	0	0	0	0	0	0
SERC	21	0	0	0	0	0	0	0	0	0	0
GROUP A	0	492	913	122	265	255	496	596	606	697	725
GROUP B	0	0	0	0	0	0	0	0	0	0	0
GROUP C	0	0	0	0	0	0	0	0	0	0	0
SPP	0	492	913	122	265	255	496	596	606	697	725
NWPP—U.S.	0	0	0	0	0	0	0	0	0	0	0
RMPA	0	0	0	0	0	0	0	0	0	0	0
AZ-NM	2	0	0	0	0	0	0	0	0	0	0
CA-SNV	0	0	0	0	0	0	0	0	0	0	0
WSCC—U.S.	2	0	0	0	0	0	0	0	0	0	0

CONTINUED

FOSSIL FUELS—OIL

TOTAL CRUDE OIL—STEAM (1000 Barrels)

TABLE 13

REGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
ECAR	0	0	0	0	0	0	0	0	0	0	0
ERCOT	0	0	0	0	0	0	0	0	0	0	0
MAAC	0	0	0	0	0	0	0	0	0	0	0
MAIN	0	0	0	0	0	0	0	0	0	0	0
MAPP—U.S.	0	0	0	0	0	0	0	0	0	0	0
NPCC—U.S.	0	0	0	0	0	0	0	0	0	0	0
SERC	0	0	0	0	0	0	0	0	0	0	0
SPP	0	0	0	0	0	0	0	0	0	0	0
WSCC—U.S.	0	203	44	47	253	329	466	1,300	1,399	1,732	1,709
NERC—U.S.	0	203	44	47	253	329	466	1,300	1,399	1,732	1,709
MAPP—CANADA	0	0	0	0	0	0	0	0	0	0	0
NPCC—CANADA	0	0	0	0	0	0	0	0	0	0	0
WSCC—CANADA	0	0	0	0	0	0	0	0	0	0	0
NERC—CANADA	0	0	0	0	0	0	0	0	0	0	0

SUBREGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
NEW YORK	0	0	0	0	0	0	0	0	0	0	0
NEW ENGLAND	0	0	0	0	0	0	0	0	0	0	0
NPCC—U.S.	0	0	0	0	0	0	0	0	0	0	0
NEW BRUNSWICK	0	0	0	0	0	0	0	0	0	0	0
ONTARIO	0	0	0	0	0	0	0	0	0	0	0
QUÉBEC	0	0	0	0	0	0	0	0	0	0	0
NPCC—CANADA	0	0	0	0	0	0	0	0	0	0	0
FLORIDA	0	0	0	0	0	0	0	0	0	0	0
SOUTHERN	0	0	0	0	0	0	0	0	0	0	0
TVA	0	0	0	0	0	0	0	0	0	0	0
VACAR	0	0	0	0	0	0	0	0	0	0	0
SERC	0	0	0	0	0	0	0	0	0	0	0
GROUP A	0	0	0	0	0	0	0	0	0	0	0
GROUP B	0	0	0	0	0	0	0	0	0	0	0
GROUP C	0	0	0	0	0	0	0	0	0	0	0
SPP	0	0	0	0	0	0	0	0	0	0	0
NWPP—U.S.	0	0	0	0	0	0	0	0	0	0	0
RMPA	0	50	44	47	56	60	59	89	96	103	116
AZ-NM	0	153	0	0	146	253	305	1,094	1,272	1,477	1,491
CA-SNV	0	0	0	0	51	16	102	117	31	152	102
WSCC—U.S.	0	203	44	47	253	329	466	1,300	1,399	1,732	1,709

TOTAL NATURAL GAS (1000 MCF)

TABLE 14

REGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
ECAR	7,806	7,500	9,500	9,500	8,200	7,500	7,500	7,500	7,500	7,500	7,500
ERCOT	915,137	1,058,102	1,036,888	976,271	886,432	911,909	844,732	876,120	870,397	885,409	863,754
MAAC	105,169	69,456	64,121	58,773	56,398	53,994	54,437	46,361	49,172	51,462	42,333
MAIN	13,806	8,554	5,390	3,175	3,029	3,414	3,879	4,559	6,032	7,969	10,377
MAPP—U.S.	5,386	5,331	5,183	4,858	5,210	3,703	3,505	3,780	3,180	3,302	3,376
NPCC—U.S.	163,442	118,641	102,470	32,780	8,695	8,876	6,747	4,612	2,477	338	338
SERC	185,148	148 40	137,995	111,272	105,494	87,347	72,237	76,427	80,764	77,542	82,801
SPP	874,512	792,777	679,168	606,428	582,498	598,416	617,219	638,700	612,501	669,126	687,394
WSCC—U.S.	463,435	600,289	565,278	493,739	467,616	507,334	496,802	539,439	543,363	533,299	560,109
NERC—U.S.	2,733,393	2,809,090	2,605,993	2,296,796	2,123,572	2,182,493	2,107,058	2,197,498	2,175,386	2,235,947	2,257,982
MAPP—CANADA	8,044	5,473	4,201	3,902	4,201	4,201	4,950	5,324	5,735	5,960	4,763
NPCC—CANADA	0	0	0	0	0	0	0	0	0	0	0
WSCC—CANADA	22,764	25,370	26,769	27,164	27,113	26,115	24,295	30,230	39,308	50,357	58,103
NERC—CANADA	30,808	30,843	30,970	31,066	31,314	30,316	29,245	35,554	45,043	56,317	62,866

SUBREGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
NEW YORK	136,725	118,641	102,470	32,780	8,695	8,876	6,747	4,612	2,477	338	338
NEW ENGLAND[g]	26,717	0	0	0	0	0	0	0	0	0	0
NPCC—U.S.	163,442	118,641	102,470	32,780	8,695	8,876	6,747	4,612	2,477	338	338
NEW BRUNSWICK	0	0	0	0	0	0	0	0	0	0	0
ONTARIO	0	0	0	0	0	0	0	0	0	0	0
QUÉBEC	0	0	0	0	0	0	0	0	0	0	0
NPCC—CANADA	0	0	0	0	0	0	0	0	0	0	0
FLORIDA	172,410	138,077	126,477	99,194	97,357	83,215	69,033	72,780	77,675	74,789	79,363
SOUTHERN	8,638	7,688	11,183	11,368	7,144	3,298	2,317	2,368	2,255	2,212	2,326
TVA[h]	0	—	—	—	—	—	—	—	—	—	—
VACAR	4,100	2,675	335	710	993	834	887	1,279	834	541	1,112
SERC	185,148	148,440	137,995	111,272	105,494	87,347	72,237	76,427	80,764	77,542	82,801
GROUP A	502,454	412,538	341,792	273,078	268,245	275,619	277,685	284,061	266,156	317,419	334,286
GROUP B	352,911	348,640	313,722	303,238	286,538	290,957	307,067	322,362	313,749	318,876	315,039
GROUP C	19,147	31,599	23,654	30,112	27,715	31,840	32,467	32,277	32,596	32,831	38,069
SPP	874,512	792,777	679,168	606,428	582,498	598,416	617,219	638,700	612,501	669,126	687,394
NWPP—U.S.	4,324	20,267	23,256	16,079	16,321	38,455	38,166	37,815	37,694	38,334	38,166
RMPA	4,239	5,525	6,217	5,311	5,297	8,201	9,318	7,047	7,027	5,894	5,817
AZ-NM	41,201	57,073	54,297	47,938	32,752	35,019	38,608	35,530	33,964	35,625	37,693
CA-SNV	413,671	517,424	481,508	424,411	413,246	425,659	410,710	459,047	464,678	453,446	478,433
WSCC—U.S.	463,435	600,289	565,278	493,739	467,616	507,334	496,802	539,439	543,363	533,299	560,109

FOSSIL FUELS—NATURAL GAS

TOTAL FIRM NATURAL GAS (1000 MCF)

TABLE 14

REGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
ECAR	0	0	0	0	0	0	0	0	0	0	0
ERCOT	753,305	805,925	799,629	758,750	709,450	704,347	667,899	667,794	660,628	679,478	642,624
MAAC	0	0	0	0	0	0	0	0	0	0	0
MAIN	10,312	6,414	3,627	1,883	1,411	1,460	2,035	3.143	4,505	5.493	6,555
MAPP—U.S.	436	1,252	1,379	1,321	1,286	1,385	1,405	1,426	1,443	1,460	1,476
NPCC—U.S.	0	0	0	0	0	0	0	0	0	0	0
SERC	7,421	8,084	10,930	11,535	7,533	3,428	2.502	2,925	2,274	2,172	2,624
SPP	567,882	573,421	499,793	442,029	426,614	441,011	446,397	452,793	449,611	494,264	526,258
WSCC—U.S.	288,353	298,366	342,197	299,385	279,459	288,745	286,704	318,667	318,361	320,895	338,294
NERC—U.S.	1,627,261	1,693,462	1,657,555	1,514,903	1,425,753	1,440,376	1.406.942	1.446.748	1,436,822	1,503,762	1,517,831
MAPP—CANADA	4,844	2,473	1,201	902	1,201	1,201	1,950	2,324	2,735	2,960	1,763
NPCC—CANADA	0	0	0	0	0	0	0	0	0	0	0
WSCC—CANADA	22,747	25,370	26,769	27,164	27,113	26,115	24,295	30,230	31,708	30,226	28,558
NERC—CANADA	27,591	27,843	27,970	28.066	28,314	27,316	26.245	32,554	34,443	33.186	30,321

SUBREGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
NEW YORK	0	0	0	0	0	0	0	0	0	0	0
NEW ENGLAND	0	0	0	0	0	0	0	0	0	0	0
NPCC—U.S.	0	0	0	0	0	0	0	0	0	0	0
NEW BRUNSWICK	0	0	0	0	0	0	0	0	0	0	0
ONTARIO	0	0	0	0	0	0	0	0	0	0	0
QUÉBEC	0	0	0	0	0	0	0	0	0	0	0
NPCC—CANADA	0	0	0	0	0	0	0	0	0	0	0
FLORIDA	0	0	0	0	0	0	0	0	0	0	0
SOUTHERN	7,193	7,185	10.660	10,949	6,741	2,905	1,940	1.971	1,919	1,888	1,888
TVA	0	0	0	0	0	0	0	0	0	0	0
VACAR	228	899	270	586	792	523	562	954	355	284	736
SERC	7,421	8.084	10,930	11,535	7,533	3,428	2.502	2.925	2,274	2,172	2,624
GROUP A	251,359	265.044	219,296	171,531	171,807	187,369	194,435	200.811	209,906	261,169	301,036
GROUP B	311,500	298,245	270,309	259,253	243.504	242,296	241,559	240,523	228,189	221,522	214,578
GROUP C	5,023	10,132	10,188	11,245	11,303	11,346	10,403	11,459	11,516	11,573	10,644
SPP	567,882	573,421	499,793	442,029	426,614	441,011	446,397	452,793	449,611	494,264	526,258
NWPP—U.S.	3,977	14,799	14,519	14,471	14.689	14,835	14.689	14,373	14,264	14.726	14,689
RMPA	2,295	3,197	3.278	2,199	2,177	3,806	4,409	3,665	3,833	3,196	2,736
AZ-NM	38,077	50,322	47,776	41,468	28,851	31,779	35.064	31,700	31,324	33,788	35,903
CA-SNV	244,004	230,048	276,624	241,247	233,742	238,325	232,542	268,929	268,940	269,185	284,966
WSCC—U.S.	288,353	298,366	342.197	299,385	279,459	288,745	286,704	318.667	318,361	320,895	338,294

CONTINUED

FOSSIL FUELS—NATURAL GAS

FIRM NATURAL GAS—STEAM (1000 MCF)

TABLE 14

REGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
ECAR	0	0	0	0	0	0	0	0	0	0	0
ERCOT	715,854	766,945	760,305	727,394	680,774	673,645	639,557	640,739	631,183	650,386	611,654
MAAC	0	0	0	0	0	0	0	0	0	0	0
MAIN	7,863	3,395	1,915	1,165	778	812	1,027	803	924	1,059	1,203
MAPP—U.S.	349	517	514	514	514	514	514	514	514	514	514
NPCC—U.S.	0	0	0	0	0	0	0	0	0	0	0
SERC	3,707	3,688	7,007	7,228	3,257	2,853	1,888	1,919	1,893	1,888	1,888
SPP	546,620	549,442	476,049	416,115	399,240	412,985	416,724	422,997	417,891	462,721	494,851
WSCC—U.S.	261,898	249,989	290,511	253,127	235,695	238,632	233,141	268,375	273,460	275,772	289,973
NERC—U.S.	1,536,291	1,573,976	1,536,301	1,405,543	1,320,258	1,329,441	1,292,851	1,335,347	1,325,865	1,392,340	1,400,083
MAPP—CANADA	4,534	2,170	935	711	935	1,197	1,422	1,609	1,833	1,983	1,235
NPCC—CANADA	0	0	0	0	0	0	0	0	0	0	0
WSCC—CANADA	14,815	15,711	14,326	14,679	14,585	13,703	11,970	17,745	19,310	17,756	16,160
NERC—CANADA	19,349	17,881	15,261	15,390	15,520	14,900	13,392	19,354	21,143	19,739	17,395

SUBREGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
NEW YORK	0	0	0	0	0	0	0	0	0	0	0
NEW ENGLAND	0	0	0	0	0	0	0	0	0	0	0
NPCC—U.S.	0	0	0	0	0	0	0	0	0	0	0
NEW BRUNSWICK	0	0	0	0	0	0	0	0	0	0	0
ONTARIO	0	0	0	0	0	0	0	0	0	0	0
QUÉBEC	0	0	0	0	0	0	0	0	0	0	0
NPCC—CANADA	0	0	0	0	0	0	0	0	0	0	0
FLORIDA	0	0	0	0	0	0	0	0	0	0	0
SOUTHERN	3,707	3,688	7,007	7,228	3,257	2,853	1,888	1,919	1,893	1,888	1,888
TVA	0	0	0	0	0	0	0	0	0	0	0
VACAR	0	0	0	0	0	0	0	0	0	0	0
SERC	3,707	3,688	7,007	7,228	3,257	2,853	1,888	1,919	1,893	1,888	1,888
GROUP A	251,149	264,288	218,354	170,695	171,253	186,720	193,725	200,110	209,153	260,106	299,646
GROUP B	291,128	275,358	247,843	234,511	217,036	215,271	212,963	211,795	197,589	191,424	184,943
GROUP C	4,343	9,796	9,852	10,909	10,951	10,994	10,036	11,092	11,149	11,191	10,262
SPP	546,620	549,442	476,049	416,115	399,240	412,985	416,724	422,997	417,891	462,721	494,851
NWPP—U.S.	3,977	14,799	14,519	14,471	14,689	14,835	14,689	14,373	14,264	14,726	14,689
RMPA	1,960	2,507	2,588	1,430	1,349	1,541	1,677	1,920	2,278	2,275	1,749
AZ-NM	23,147	30,407	23,411	21,379	13,332	15,978	16,815	16,352	16,454	19,318	19,259
CA-SNV	232,814	202,276	249,993	215,847	206,325	206,278	199,960	235,730	240,464	239,453	254,276
WSCC—U.S.	261,898	249,989	290,511	253,127	235,695	238,632	233,141	268,375	273,460	275,772	289,973

FOSSIL FUELS—NATURAL GAS

FIRM NATURAL GAS—COMBUSTION TURBINE (1000 MCF)

TABLE 14

REGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
ECAR	0	0	0	0	0	0	0	0	0	0	0
ERCOT	4,332	1,994	2,592	1,196	1,090	1,106	1,226	1,505	1,286	1,569	2,207
MAAC	0	0	0	0	0	0	0	0	0	0	0
MAIN	2,449	3,019	1,712	718	633	648	1,008	1,885	2.558	3,299	4,105
MAPP—U.S.	87	735	865	807	772	871	891	912	929	946	962
NPCC—U.S.	0	0	0	0	0	0	0	0	0	0	0
SERC	3,604	4,396	3.923	4.307	4,276	575	614	1,006	381	284	736
SPP	1,242	1,350	1.727	1,441	1,152	1,253	1,529	1,320	1,742	2,056	2,386
WSCC—U.S.	3,468	10,074	11,087	9,349	10,567	16,821	18.395	18.608	13,510	14,968	16,209
NERC—U.S.	14,734	21,568	21,906	17,818	18.490	21,274	23,663	25.236	20,406	23,122	26,605
MAPP—CANADA	310	303	266	191	266	4	528	715	902	977	528
NPCC—CANADA	0	0	0	0	0	0	0	0	0	0	0
WSCC—CANADA	7,932	9,659	12,443	12,485	12.528	12,412	12.325	12,485	12,398	12,470	12,398
NERC—CANADA	8,242	9,962	12,709	12,676	12,794	12,416	12,853	13,200	13,300	13,447	12,926

SUBREGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
NEW YORK	0	0	0	0	0	0	0	0	0	0	0
NEW ENGLAND	0	0	0	0	0	0	0	0	0	0	0
NPCC—U.S.	0	0	0	0	0	0	0	0	0	0	0
NEW BRUNSWICK	0	0	0	0	0	0	0	0	0	0	0
ONTARIO	0	0	0	0	0	0	0	0	0	0	0
QUEBEC	0	0	0	0	0	0	0	0	0	0	0
NPCC—CANADA	0	0	0	0	0	0	0	0	0	0	0
FLORIDA	0	0	0	0	0	0	0	0	0	0	0
SOUTHERN	3,486	3,497	3,653	3,721	3,484	52	52	52	26	0	0
TVA	0	0	0	0	0	0	0	0	0	0	0
VACAR	118	899	270	586	792	523	562	954	355	284	736
SERC	3,604	4,396	3.923	4,307	4,276	575	614	1,006	381	284	736
GROUP A	210	756	942	836	554	649	710	701	753	1,063	1,390
GROUP B	352	258	449	269	246	252	452	252	622	611	614
GROUP C	680	336	336	336	352	352	367	367	367	382	382
SPP	1,242	1,350	1.727	1,441	1.152	1,253	1,529	1,320	1.742	2,056	2,386
NWPP—U.S.	0	0	0	0	0	0	0	0	0	0	0
RMPA	335	690	690	769	828	2.265	2.732	1.745	1,555	921	987
AZ-NM	2,284	1,170	2.154	1,970	1,072	1,329	1,761	1.664	1,509	1,965	1,982
CA-SNV	849	8,214	8,243	6.610	8,667	13,227	13,902	15,199	10.446	12,082	13,240
WSCC—U.S.	3.468	10,074	11,087	9,349	10.567	16,821	18,395	18.608	13.510	14.968	16,209

FOSSIL FUELS—NATURAL GAS

FIRM NATURAL GAS—COMBINED CYCLE (1000 MCF) TABLE 14

REGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
ECAR	0	0	0	0	0	0	0	0	0	0	0
ERCOT	33,119	36,986	36,732	30,160	27,586	29,596	27.116	25,550	28.159	27,523	28,763
MAAC	0	0	0	0	0	0	0	0	0	0	0
MAIN	0	0	0	0	0	0	0	455	1,023	1,135	1,247
MAPP—U.S.	0	0	0	0	0	0	0	0	0	0	0
NPCC—U.S.	0	0	0	0	0	0	0	0	0	0	0
SERC	0	0	0	0	0	0	0	0	0	0	0
SPP	20,020	22,629	22,017	24.473	26.222	26,773	28.144	28.476	29.978	29,487	29,021
WSCC—U.S.	22,987	38,303	40,599	36,909	33,197	33.292	35,168	31.684	31,391	30,155	32,112
NERC—U.S.	76,126	97,918	97,348	91,542	87,005	89,661	90.428	86.165	90,551	88,300	91,143
MAPP—CANADA	0	0	0	0	0	0	0	0	0	0	0
NPCC—CANADA	0	0	0	0	0	0	0	0	0	0	0
WSCC—CANADA	0	0	0	0	0	0	0	0	0	0	0
NERC—CANADA	0	0	0	0	0	0	0	0	0	0	0

SUBREGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
NEW YORK	0	0	0	0	0	0	0	0	0	0	0
NEW ENGLAND	0	0	0	0	0	0	0	0	0	0	0
NPCC—U.S.	0	0	0	0	0	0	0	0	0	0	0
NEW BRUNSWICK	0	0	0	0	0	0	0	0	0	0	0
ONTARIO	0	0	0	0	0	0	0	0	0	0	0
QUÉBEC	0	0	0	0	0	0	0	0	0	0	0
NPCC—CANADA	0	0	0	0	0	0	0	0	0	0	0
FLORIDA	0	0	0	0	0	0	0	0	0	0	0
SOUTHERN	0	0	0	0	0	0	0	0	0	0	0
TVA	0	0	0	0	0	0	0	0	0	0	0
VACAR	0	0	0	0	0	0	0	0	0	0	0
SERC	0	0	0	0	0	0	0	0	0	0	0
GROUP A	0	0	0	0	0	0	0	0	0	0	0
GROUP B	20,020	22,629	22,017	24.473	26,222	26,773	28.144	28.476	29.978	29,487	29,021
GROUP C	0	0	0	0	0	0	0	0	0	0	0
SPP	20,020	22,629	22,017	24,473	26.222	26,773	28.144	28.476	29.978	29.487	29,021
NWPP—U.S.	0	0	0	0	0	0	0	0	0	0	0
RMPA	0	0	0	0	0	0	0	0	0	0	0
AZ-NM	12,646	18.745	22.211	18,119	14.447	14,472	16.488	13.684	13,361	12.505	14,662
CA-SNV	10,341	19,558	18,388	18.790	18,750	18.820	18,680	18.000	18,030	17,650	17,450
WSCC—U.S.	22,987	38.303	40,599	36.909	33.197	33.292	35.168	31,684	31.391	30,155	32,112

CONTINUED

FOSSIL FUELS—NATURAL GAS

TOTAL INTERRUPTIBLE[1] NATURAL GAS (1000 MCF)

TABLE 14

REGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
ECAR	7,806	7,500	9.500	9,500	8,200	7,500	7,500	7,500	7,500	7,500	7,500
ERCOT	161,832	252,177	237,259	217,521	176,982	207,562	176,833	208,326	209,769	205,931	221,130
MAAC	105,169	69,456	64,121	58.773	56,398	53,994	54.437	46.361	49.172	51,462	42,333
MAIN	3,494	2,140	1.763	1,292	1,618	1,954	1,844	1,416	1,527	2,476	3,822
MAPP—U.S.	4,950	4,079	3.804	3,537	3,924	2,318	2,100	2,354	1,737	1,842	1,900
NPCC—U.S.	163,442	118,641	102,470	32,780	8,695	8.876	6,747	4.612	2,477	338	338
SERC	5,317	2,279	588	543	604	704	702	722	815	581	814
SPP	306,630	219,356	179,375	164,399	155,884	157,405	170,822	185,907	162,890	174,862	161,136
WSCC—U.S.	175,082	301,923	223,081	194,354	188,157	218,589	210,098	220,772	225,002	212,404	221,815
NERC—U.S.	933,722	977,551	821,961	682,699	600,462	658,902	631,083	677,970	660,889	657,396	660,788
MAPP—CANADA	3,200	3,000	3,000	3,000	3,000	3,000	3,000	3.000	3,000	3,000	3,000
NPCC—CANADA	0	0	0	0	0	0	0	0	0	0	0
WSCC—CANADA	17	0	0	0	0	0	0	0	7,600	20,131	29,545
NERC—CANADA	3,217	3,000	3,000	3,000	3,000	3,000	3,000	3,000	10,600	23,131	32,545

SUBREGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
NEW YORK	136,725	118,641	102.470	32,780	8,695	8,876	6,747	4,612	2.477	338	338
NEW ENGLAND[g]	26,717	0	0	0	0	0	0	0	0	0	0
NPCC—U.S.	163,442	118,641	102,470	32,780	8.695	8,876	6,747	4.612	2,477	338	338
NEW BRUNSWICK	0	0	0	0	0	0	0	0	0	0	0
ONTARIO	0	0	0	0	0	0	0	0	0	0	0
QUÉBEC	0	0	0	0	0	0	0	0	0	0	0
NPCC—CANADA	0	0	0	0	0	0	0	0	0	0	0
FLORIDA	0	0	0	0	0	0	0	0	0	0	0
SOUTHERN	1,445	503	523	419	403	393	377	397	336	324	438
TVA[h]	0	—	—	—	—	—	—	—	—	—	—
VACAR	3,872	1,776	65	124	201	311	325	325	479	257	376
SERC	5,317	2,279	588	543	604	704	702	722	815	581	814
GROUP A	251,095	147,494	122,496	101,547	96,438	88.250	83,250	83,250	56,250	56,250	33,250
GROUP B	41,411	50,395	43,413	43,985	43,034	48.661	65,508	81,839	85.560	97,354	100,461
GROUP C	14,124	21,467	13,466	18,867	16,412	20,494	22,064	20,818	21,080	21,258	27,425
SPP	306,630	219,356	179,375	164,399	155,884	157,405	170,822	185,907	162,890	174,862	161,136
NWPP—U.S.	347	5,468	8,737	1,608	1,632	23,620	23,477	23,442	23,430	23,608	23,477
RMPA	1,944	2,328	2,939	3.112	3,120	4,395	4,909	3,382	3,194	2,698	3,081
AZ-NM	3,124	6,751	6,521	6.470	3,901	3,240	3.544	3,830	2,640	1,837	1,790
CA-SNV	169,667	287,376	204,884	183,164	179,504	187,334	178,168	190,118	195,738	184,261	193,467
WSCC—U.S.	175,082	301,923	223.081	194,354	186,157	218,589	210,098	220,772	225,002	212,404	221,815

INTERRUPTIBLE NATURAL GAS—STEAM (1000 MCF)

TABLE 14

REGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
ECAR I	5,620	5,500	7,500	7,500	6,200	5,500	5.500	5,500	5.500	5,500	5,500
ERCOT	156,189	244,965	229,539	209,508	170,297	200,636	169.036	200,152	202,092	198,170	214,230
MAAC	87,864	61,770	56,740	54,476	52.971	50,404	50,998	44,955	47,670	49,698	41,603
MAIN	2,877	1,339	1,067	720	940	1,060	919	134	134	134	134
MAPP—U.S.	3,033	2,125	1,297	1,512	1,766	1,751	1,566	1,801	1,203	1,303	1,287
NPCC—U.S.	159,499	118,641	102,470	32,780	8,695	8,876	6,747	4,612	2,477	338	338
SERC	4,546	2,168	480	429	460	490	493	355	304	293	403
SPP	301,573	217,360	177,936	162,513	153,868	155,342	168,518	183,465	160,434	172,156	158,133
WSCC—U.S.	174,883	297,522	215,326	193,678	187,439	195,278	186,200	197,230	201,622	189,075	198,650
NERC—U.S.	896,084	951,390	792,355	663,116	582,636	619,337	589,977	638,204	621,436	616,667	620,278
MAPP—CANADA	3,200	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000
NPCC—CANADA	0	0	0	0	0	0	0	0	0	0	0
WSCC—CANADA	17	0	0	0	0	0	0	0	7,600	20,131	29,545
NERC—CANADA	3,217	3,000	3,000	3,000	3,000	3,000	3,000	3,000	10,600	23,131	32,545

SUBREGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
NEW YORK	136,725	118,641	102.470	32.780	8,695	8,876	6,747	4,612	2.477	338	338
NEW ENGLAND[g]	22,774	0	0	0	0	0	0	0	0	0	0
NPCC—U.S.	159,499	118,641	102,470	32,780	8,695	8,876	6,747	4.612	2,477	338	338
NEW BRUNSWICK	0	0	0	0	0	0	0	0	0	0	0
ONTARIO	0	0	0	0	0	0	0	0	0	0	0
QUÉBEC	0	0	0	0	0	0	0	0	0	0	0
NPCC—CANADA	0	0	0	0	0	0	0	0	0	0	0
FLORIDA	0	0	0	0	0	0	0	0	0	0	0
SOUTHERN	1,364	470	480	373	362	350	339	355	304	293	403
TVA	0	0	0	0	0	0	0	0	0	0	0
VACAR	3,182	1,698	0	56	98	140	154	0	0	0	0
SERC	4,546	2,168	480	429	460	490	493	355	304	293	403
GROUP A	247,695	147,494	122.496	101,547	96,438	88,250	83,250	83.250	56,250	56,250	33,250
GROUP B	41,411	50,395	43,413	43,985	43,034	48,661	65,508	81,839	85,560	97,354	100,461
GROUP C	12,467	19,471	12,027	16,981	14,396	18,431	19,760	18,376	18,624	18,552	24,422
SPP	301,573	217,360	177,936	162,513	153,868	155,342	168,518	183,465	160,434	172,156	158,133
NWPP—U.S.	336	1,643	1,611	1.608	1,632	1,648	1,632	1,597	1,585	1,636	1,632
RMPA	1,944	2,180	2,717	2,864	2,830	3,684	3.998	2,803	2.740	2,401	2,774
AZ-NM	2,936	6,549	6,319	6,269	3.700	2,839	2,629	2,939	1,786	1,004	1,004
CA-SNV	169,667	287,150	204,679	182,937	179,277	187,107	177,941	189,891	195,511	184,034	193,240
WSCC—U.S.	174,883	297,522	215,326	193,678	187,439	195,278	186,200	197,230	201,622	189,075	198,650

CONTINUED

FOSSIL FUELS—NATURAL GAS

INTERRUPTIBLE[1] NATURAL GAS—COMBUSTION TURBINE (1000 MCF)

TABLE 14

REGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
ECAR	2,186	2,000	2,000	2,000	2,000	2,000	2.000	2,000	2,000	2,000	2,000
ERCOT	10	14	0	0	0	0	0	0	0	0	0
MAAC	10,915	2,942	2,429	830	653	692	753	461	517	736	727
MAIN	617	801	696	572	678	894	925	1,282	1,393	2,342	3,688
MAPP—U.S.	1,872	1,954	2,507	2,025	2,158	567	533	529	532	536	540
NPCC—U.S.	324	0	0	0	0	0	0	0	0	0	0
SERC	771	111	108	114	144	214	209	367	511	288	411
SPP	1,345	1,781	1,259	1,801	1,930	1,985	2,109	2,209	2,069	2,168	2,404
WSCC—U.S.	199	1,452	1,848	676	718	4,577	5.279	4.923	4,761	4,595	4,546
NERC—U.S.	18,239	11,055	10,847	8,018	8,281	10,929	11,808	11,771	11,783	12,665	14,316
MAPP—CANADA	0	0	0	0	0	0	0	0	0	0	0
NPCC—CANADA	0	0	0	0	0	0	0	0	0	0	0
WSCC—CANADA	0	0	0	0	0	0	0	0	0	0	0
NERC—CANADA	0	0	0	0	0	0	0	0	0	0	0

SUBREGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
NEW YORK	0	0	0	0	0	0	0	0	0	0	0
NEW ENGLAND[g]	324	0	0	0	0	0	0	0	0	0	0
NPCC—U.S.	324	0	0	0	0	0	0	0	0	0	0
NEW BRUNSWICK	0	0	0	0	0	0	0	0	0	0	0
ONTARIO	0	0	0	0	0	0	0	0	0	0	0
QUÉBEC	0	0	0	0	0	0	0	0	0	0	0
NPCC—CANADA	0	0	0	0	0	0	0	0	0	0	0
FLORIDA	0	0	0	0	0	0	0	0	0	0	0
SOUTHERN	81	33	43	46	41	43	38	42	32	31	35
TVA[h]	0	—	—	—	—	—	—	—	—	—	—
VACAR	690	78	65	68	103	171	171	325	479	257	376
SERC	771	111	108	114	144	214	209	367	511	288	411
GROUP A	0	0	0	0	0	0	0	0	0	0	0
GROUP B	0	0	0	0	0	0	0	0	0	0	0
GROUP C	1,345	1,781	1,259	1,801	1,930	1,985	2,109	2,209	2,069	2,168	2,404
SPP	1,345	1,781	1.259	1,801	1,930	1,985	2.109	2,209	2.069	2.168	2,404
NWPP—U.S.	11	876	1,219	0	0	3,238	3,226	3.226	3.226	3,238	3,226
RMPA	0	148	222	248	290	711	911	579	454	297	307
AZ-NM	188	202	202	201	201	401	915	891	854	833	786
CA-SNV	0	226	205	227	227	227	227	227	227	227	227
WSCC—U.S.	199	1,452	1,848	676	718	4.577	5,279	4,923	4.761	4,595	4,546

CONTINUED

INTERRUPTIBLE[1] *NATURAL GAS—COMBINED CYCLE* (1000 MCF)

TABLE 14

REGION	ACTUAL 1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
ECAR	0	0	0	0	0	0	0	0	0	0	0
ERCOT	5,633	7,198	7,720	8,013	6,685	6,926	7,797	8,174	7,677	7,761	6,900
MAAC	6,390	4,744	4,952	3,467	2,774	2,898	2,686	945	985	1,028	3
MAIN	0	0	0	0	0	0	0	0	0	0	0
MAPP—U.S.	45	0	0	0	0	0	1	24	2	3	73
NPCC—U.S.	3,619	0	0	0	0	0	0	0	0	0	0
SERC	0	0	0	0	0	0	0	0	0	0	0
SPP	3,712	215	180	85	86	78	195	233	387	538	599
WSCC—U.S.	0	2,949	5,907	0	0	18,734	18,619	18,619	18,619	18,734	18,619
NERC—U.S.	19,399	15,106	18,759	11,565	9,545	28,636	29,298	27,995	27,670	28,064	26,194
MAPP—CANADA	0	0	0	0	0	0	0	0	0	0	0
NPCC—CANADA	0	0	0	0	0	0	0	0	0	0	0
WSCC—CANADA	0	0	0	0	0	0	0	0	0	0	0
NERC—CANADA	0	0	0	0	0	0	0	0	0	0	0

SUBREGION	ACTUAL 1983	1984	1985	1986	1987	1983	1989	1990	1991	1992	1993
NEW YORK	0	0	0	0	0	0	0	0	0	0	0
NEW ENGLAND[9]	3,619	0	0	0	0	0	0	0	0	0	0
NPCC—U.S.	3,619	0	0	0	0	0	0	0	0	0	0
NEW BRUNSWICK	0	0	0	0	0	0	0	0	0	0	0
ONTARIO	0	0	0	0	0	0	0	0	0	0	0
QUÉBEC	0	0	0	0	0	0	0	0	0	0	0
NPCC—CANADA	0	0	0	0	0	0	0	0	0	0	0
FLORIDA	0	0	0	0	0	0	0	0	0	0	0
SOUTHERN	0	0	0	0	0	0	0	0	0	0	0
TVA	0	0	0	0	0	0	0	0	0	0	0
VACAR	0	0	0	0	0	0	0	0	0	0	0
SERC	0	0	0	0	0	0	0	0	0	0	0
GROUP A	3,400	0	0	0	0	0	0	0	0	0	0
GROUP B	0	0	0	0	0	0	0	0	0	0	0
GROUP C	312	215	180	85	86	78	195	233	387	538	599
SPP	3,712	215	180	85	86	78	195	233	387	538	599
NWPP—U.S.	0	2,949	5,907	0	0	18,734	18,619	18,619	18,619	18,734	18,619
RMPA	0	0	0	0	0	0	0	0	0	0	0
AZ-NM	0	0	0	0	0	0	0	0	0	0	0
CA-SNV	0	0	0	0	0	0	0	0	0	0	0
WSCC—U.S.	0	2,949	5,907	0	0	18,734	18,619	18,619	18,619	18,734	18,619

(See footnotes on next page.)

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FOOTNOTES TO TABLES 12-14

a/ Coal mined west of the Mississippi River.
b/ Coal sources indeterminate for ECAR.
c/ Distillate oil includes #1 and #2 oil, kerosene and jet fuel. This category includes amounts used at coal-burning plants for startup and flame stabilization.
d/ ECAR includes approximately 1,000,000 barrels for light-off and flame stabilization.
e/ Includes diesel.
f/ Residual oil includes #4, #5, #6 oil.
g/ Natural gas in New England is burned on an as available, interruptible basis. No firm contracts are anticipated in the future.
h/ Natural gas is used when available in 30% of TVA combustion turbine capacity. TVA does not have any firm long-term contracts, and thus cannot make accurate estimates.
i/ Interruptible Natural Gas: by contractual agreement.
j/ ECAR includes approximately 5,000,000 MCF for flame stabilization and startup.

Planned Generating Unit Additions

The generating unit additions planned for 1984-1993 are presented for the NERC Regions and Subregions in the following tables. These units are listed as reported by the Regional Reliability Councils of NERC to the U.S. Department of Energy in their April 1, 1984 (EP-411) Reports.

The principal fuel types of the new generating capacity planned to be brought into service in the next ten years are coal and nuclear. The following tables show that in the years 1984-1993, U.S. utilities are planning to add 107 new coal-fired units and 50 new nuclear units, representing 56,272 MW and 55,059 MW of capacity, respectively. These two fuel types together account for 85.1% of the total capacity planned to be added.

Last year's projection for the 1983-1992 period was for 129 new coal-fired units and 60 new nuclear units. The reductions from last year reflect the declining growth of peak demands expected by utilities.

A table listing only planned coal units, and a table listing only planned nuclear units, arranged chronologically by expected service date, are provided as Tables 16 and 17, respectively.

The codes used throughout these tables for unit/fuel type and construction status are listed above. State locations of units are denoted by their two-character federal postal codes. Generating units which are jointly owned are denoted with a "J" in the far right-hand column. In such cases, only the name of the majority utility owner is listed, along with the total summer megawatt generating capability of the unit. Utility system abbreviations follow the conventions used in the Regional EP-411 Reports.

Symbol Codes for the Following Regional Tables:

UNIT TYPE

ST	STEAM TURBINE-NON NUCLEAR
NB	STEAM-BWR NUCLEAR
NP	STEAM-PWR NUCLEAR
NH	STEAM-HTGR NUCLEAR
CD	CANDU
IC	INTERNAL COMBUSTION
GT	COMBUSTION TURBINE
HY	CONVENTIONAL HYDRO
PS	PUMPED STORAGE HYDRO
CW	COMBINED CYCLE-STEAM PORTION-WASTE HEAT ONLY
CA	COMBINED CYCLE-STEAM PORTION-AUXILIARY FIRED
CT	COMBINED CYCLE-COMBUSTION TURBINE PORTION
CG	COGENERATION
JE	JET ENGINE
FC	FUEL CELL
SO	SOLAR
WM	WIND POWER
GE	GEOTHERMAL
ZZ	NONE OF THE ABOVE
UN	UNKNOWN AT THIS TIME

CONSTRUCTION STATUS

P	PLANNED FOR INSTALLATION, BUT NOT UTILITY AUTHORIZED
L	REGULATORY APPROVAL PENDING
T	REGULATORY APPROVAL RECEIVED, BUT NOT UNDER CONSTRUCTION
U	UNDER CONSTRUCTION, LESS THAN APPROXIMATELY 50% OF PLANT COMPLETED
V	UNDER CONSTRUCTION, GREATER THAN APPROXIMATELY 50% OF PLANT COMPLETED
R	PLANNED FOR RETIREMENT

FUEL TYPE

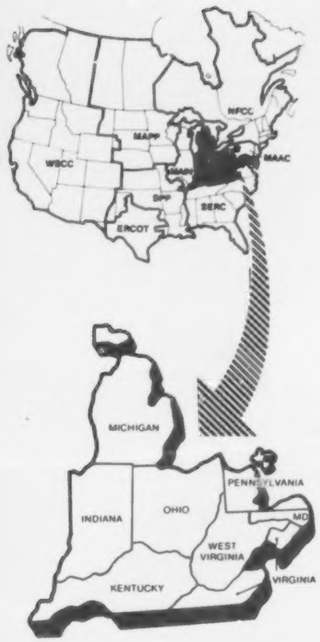
WH	WASTE HEAT
COL	COAL - GENERAL
BIT	BITUMINOUS COAL
SUB	SUB-BITUMINOUS COAL
ANT	ANTHRACITE COAL
LIG	LIGNITE COAL
PC	PETROLEUM COKE
LNG	LIQUIFIED NATURAL GAS
MTH	METHANOL
GAS	GAS - GENERAL
NG	NATURAL GAS
RG	REFINERY GAS
BFG	BLAST FURNACE GAS
COG	COKE OVEN GAS
UNK	UNKNOWN AT THIS TIME
GST	GEOTHERMAL STEAM
MUL	MULTI-FUELED
REF	REFUSE - SOLID WASTE
OIL	OIL - GENERAL
FO1	NO.1 FUEL OIL
FO2	NO.2 FUEL OIL
FO4	NO.4 FUEL OIL
FO5	NO.5 FUEL OIL
FO6	NO.6 FUEL OIL
CRU	CRUDE OIL
TOP	TOP CRUDE OIL
JF	JET FUEL
KER	KEROSENE
LPG	LIQUID PROPANE GAS
RRO	RE-REFINED MOTOR OIL
SNG	SYNTHETIC NATURAL GAS
UR	URANIUM
PL	PLUTONIUM
WAT	WATER
TH	THORIUM
SUN	SUN
WND	WIND
G/C	GAS AND/OR COAL
O/C	OIL AND/OR COAL
W/G	WOOD AND/OR GAS
W/O	WOOD AND/OR OIL
WOD	WOOD
WD	WOOD AND WOOD WASTE
PEA	PEAT
ZZ	NONE OF THE ABOVE

Generating Unit Additions Scheduled for Service 1984-1993

Fuel Type		Number of Units	Total Summer Capability (MW)	% of Total Capability (MW)	Average Unit Size (MW)
OTHER	U.S.	163	12,397	9.5	76
	CAN.	6	505	2.8	84
OIL/GAS	U.S.	49	3,022	2.3	62
	CAN.	0	0	0.0	—
COAL	U.S.	107	56,272	43.0	526
	CAN.	10	3,447	19.3	345
NUCLEAR	U.S.	50	55,059	42.1	1,101
	CAN.	11	8,196	45.8	745
HYDRO	U.S.	199	4,017	3.1	20
	CAN.	28	5,755	32.0	206
TOTAL	U.S.	568	130,767	100.0	
	CAN.	55	17,903	100.0	—

PLANNED GENERATING UNIT ADDITIONS (1984-1993)
ECAR

TABLE 15



REGION SUBREGION	STATE PROV.	UTILITY SYSTEM	UNIT NAME	UNIT TYPE	SUMMER MW CAPABILITY	FUEL TYPE	PROJECTED SERVICE DATE	CONSTRUCTION STATUS	JOINTLY OWNED
ECAR	IN	PSI	MARBLE HILL 1	NP	1130	UR	**/**	U	
ECAR	IN	PSI	MARBLE HILL 2	NP	1130	UR	**/**	U	
ECAR	MI	CP	MIDLAND 1	NP	408	UR	**/**	V	
ECAR	MI	DECO	BELLE RIVER 1	ST	655	COL	07/84	V	J
ECAR	KY	BREC	D.B.WILSON 1	ST	400	COL	07/84	V	
ECAR	KY	KU	GHENT 4	ST	500	COL	09/84	V	
ECAR	MI	DECO	ENRICO FERMI 2	NB	1093	UR	12/84	V	J
ECAR	IN	AEP	ROCKPORT 1	ST	1300	COL	12/84	V	
ECAR	OH	CAPC	PERRY 1	NB	1179	UR	05/85	V	J
ECAR	MI	DECO	BELLE RIVER 2	ST	655	COL	07/85	U	
ECAR	VA	APS	BATH CO. PUMPED STORAGE	PS	560	WAT	11/85	V	
ECAR	IN	SIGE	A.B.BROWN 2	ST	250	COL	01/86	U	
ECAR	VA	APS	BATH CO. PUMPED STORAGE	PS	280	WAT	04/86	V	
ECAR	IN	IP&L	PETERSBURG 4	ST	[illegible]	COL	04/86	V	
ECAR	PA	CAPC	BEAVER VALLEY 2	NP	[illegible]	UR	05/86	V	J
ECAR	IN	NIPS	R.M.SCHAHFER 18	ST	344	COL	06/86	U	
ECAR	MI	CP	MIDLAND 2	NP	786	UR	07/86	V	
ECAR	IN	AEP	ROCKPORT 2	ST	1300	COL	12/86	U	
ECAR	KY	LG&E	TRIMBLE COUNTY 1	ST	495	COL	06/87	U	
ECAR	OH	CAPC	PERRY 2	NB	1179	UR	05/88	V	J
ECAR	IN	SIGE	BROADWAY 3	GT	70	NG	04/89	P	
ECAR	PA	SIGE	BROADWAY 4	GT	70	NG	04/91	P	
ECAR	**	IP&L	UNDESIGNATED	GT	80	FO2	10/91	P	
ECAR	**	APS	COAL 1	ST	300	COL	09/92	P	
ECAR	KY	EKPC	J.K.SMITH 1	ST	600	COL	10/92	U	
ECAR	**	IP&L	UNDESIGNATED	GT	80	FO2	10/92	P	
ECAR	**	CG&E	NEW GT 1	GT	60	FO2	04/93	P	
ECAR	**	CG&E	NEW GT 2	GT	60	FO2	04/93	P	
ECAR	**	CG&E	NEW GT 3	GT	60	FO2	04/93	P	
ECAR	**	CG&E	NEW GT 4	GT	60	FO2	04/93	P	
ECAR	**	CG&E	NEW GT 5	GT	60	FO2	04/93	P	
ECAR	KY	KU	HANCOCK CO. 1	ST	650	COL	10/93	P	

/	Date indeterminate.
**	State location undesignated.

PLANNED GENERATING UNIT ADDITIONS (1984-1993)
ERCOT

TABLE 15

NPCC
MAPP
WSCC
MAIN
ECAR
MAAC
SPP
SERC
TEXAS

REGION SUBREGION	STATE PROV	UTILITY SYSTEM	UNIT NAME	UNIT TYPE	SUMMER MW CAPABILITY	FUEL TYPE	PROJECTED SERVICE DATE	CONSTRUCTION STATUS	JOINTLY OWNED
ERCOT	TX	HL&P	ADD'L SUPPLY OPTIONS	UN	326	UNK	06/84	X[b]	
ERCOT	TX	HL&P	COGENERATION	CG	600	UNK	06/84	X[b]	
ERCOT	TX	HL&P	DEEPWATER [illegible]	ST	101	NG	06/84	U	
ERCOT	TX	TUEC	COMANCHE PEAK 1	NP	1150	UR	01/85	V	J
ERCOT	TX	HL&P	ADDITIONAL SUPPLY OPTIONS	UN	107	UNK	06/85	X[b]	
ERCOT	TX	HL&P	COGENERATION	CG	210	UNK	06/85	X[b]	
ERCOT	TX	HL&P	LIMESTONE 1	ST	720	LIG	03/86	U	
ERCOT	TX	HL&P	ADDITIONAL SUPPLY OPTIONS	UN	85	UNK	06/86	X[b]	
ERCOT	TX	TUEC	COMANCHE PEAK 2	NP	1150	UR	07/86	V	J
ERCOT	TX	AUST	HYDRO 1	HY	3	WAT	12/86	P	
ERCOT	TX	WETU	OKLAUNION 1	ST	640[a]	SUB	12/86	U	J
ERCOT	TX	HL&P	LIMESTONE 2	ST	720	LIG	03/87	U	
ERCOT	TX	HL&P	ADDITIONAL SUPPLY OPTIONS	UN	97	UNK	06/87	X[b]	
ERCOT	TX	HL&P	COGENERATION	CG	75	UNK	06/87	X[b]	
ERCOT	TX	HL&P	SOUTH TEXAS PROJECT 1	NP	1250	UR	06/87	V	J
ERCOT	TX	CPSA	MSW-LCP	ST	33	REF	04/88	P	
ERCOT	TX	HL&P	ADDITIONAL SUPPLY OPTIONS	UN	47	UNK	06/88	X[b]	
ERCOT	TX	LCRA	F.P.P. 3	ST	400	LIG	06/88	T	J
ERCOT	TX	TUEC	FOREST GROVE 1	ST	750	LIG	01/89	U	
ERCOT	TX	TUEC	TWIN OAK 1	ST	563	LIG	02/89	U	
ERCOT	TX	HL&P	ADDITIONAL SUPPLY OPTIONS	UN	216	UNK	06/89	X[b]	
ERCOT	TX	LCRA	F.P.P. 4	ST	400	LIG	06/89	L	
ERCOT	TX	HP&L	SOUTH TEXAS PROJECT 2	NP	1250	UR	06/89	U	J
ERCOT	TX	TUEC	TWIN OAK 2	ST	562	LIG	02/90	U	
ERCOT	TX	HL&P	MALAKOFF 1	ST	615	LIG	04/90	P	
ERCOT	TX	HL&P	ADDITIONAL SUPPLY OPTIONS	UN	41	UNK	06/90	X[b]	
ERCOT	TX	WETU	COLETO CREEK 2	ST	640	BIT	12/90	L	J
ERCOT	TX	TUEC	MARTIN LAKE 4	ST	750	LIG	01/91	U	
ERCOT	TX	ST&M	SAN MIGUEL 2	ST	200	LIG	01/91	P	
ERCOT	TX	HL&P	MALAKOFF 2	ST	615	LIG	04/91	P	
ERCOT	TX	HL&P	ADDITIONAL SUPPLY OPTIONS	UN	45	UNK	06/91	X[b]	
ERCOT	TX	TUEC	OTHER CAPACITY	ST	600	BIT	07/91	P	
ERCOT	TX	TUEC	SITE A	ST	650	COL	01/92	P	
ERCOT	TX	HL&P	ADDITIONAL SUPPLY OPTIONS	UN	540	UNK	06/92	X[b]	
ERCOT	TX	TUEC	OTHER CAPACITY	ST	1000	BIT	07/92	P	
ERCOT	TX	TMPP	UNDESIGNATED 1	ST	250	LIG	07/92	P	
ERCOT	TX	TUEC	SITE A	ST	650	COL	01/93	P	
ERCOT	TX	TUEC	SITE C	ST	650	COL	01/93	P	
ERCOT	TX	CPSA	UNDESIGNATED	ST	468	LIG	04/93	P	
ERCOT	TX	HL&P	ADDITIONAL SUPPLY OPTIONS	UN	630	UNK	06/93	X[b]	
ERCOT	TX	TUEC	OTHER CAPACITY	ST	300	BIT	07/93	P	

a/ 175 MW of 640 MW Oklaunion unit capacity to participants in SPP Region.

b/ This additional capacity may be realized by load management or conservation, by rescheduling of planned units, by deferral of unit retirements, or by other sources.

WSCC
MAPP
NPCC
ECAR
MAIN
SPP
SERC
ERCOT
PENNSYLVANIA
NEW JERSEY
MD
DEL
MD

PLANNED GENERATING UNIT ADDITIONS (1984-1993)
MAAC

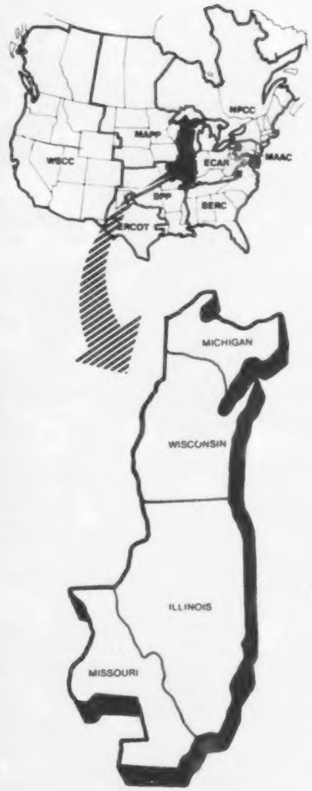
TABLE 15

REGION/ SUBREGION	STATE PROV.	UTILITY SYSTEM	UNIT NAME	UNIT TYPE	SUMMER MW CAPABILITY	FUEL TYPE	PROJECTED SERVICE DATE	CONSTRUCTION STATUS	JOINTLY OWNED
MAAC	MD	BCCO	BRANDON SHORES 1	ST	600	BIT	05/84	V	
MAAC	PA	PLCO	SUSQUEHANNA 2	NB	1050	UR	12/84	V	J
MAAC	MD	BCCO	WASTE BURNING FACILITY	ST	47	REF	02/85	U	J
MAAC	PA	PECO	LIMERICK 1	NB	1055	UR	04/85	V	
MAAC	PA	PLCO	SAFE HARBOR 8	HY	37	WAT	05/85	U	J
MAAC	PA	PLCO	SAFE HARBOR 10	HY	38	WAT	08/85	U	J
MAAC	PA	PLCO	SAFE HARBOR 12	HY	37	WAT	11/85	U	J
MAAC	PA	PLCO	SAFE HARBOR 9	HY	38	WAT	02/86	U	J
MAAC	PA	PLCO	SAFE HARBOR 11	HY	38	WAT	05/86	U	
MAAC	NJ	PSCO	HOPE CREEK NO. 1	NB	1014	UR	12/86	V	J
MAAC	PA	GPUS	RAYSTOWN 1	HY	2	WAT	12/87	T	J
MAAC	MD	BCCO	BRANDON SHORES 2	ST	640	BIT	12/88	U	
MAAC	DE	DPLC	UNIDENTIFIED CT'S	GT	37	FO2	01/90	P	
MAAC	PA	PECO	LIMERICK 2	NB	1055	UR	04/90	U	
MAAC	DE	DPLC	UNIDENTIFIED CT'S	GT	42	FO2	01/92	P	
MAAC	**	GPUS	COAL 1	ST	625	BIT	05/93	P	

** State location undesignated.

PLANNED GENERATING UNIT ADDITIONS (1984-1993)
MAIN

TABLE 15



Commonwealth Edison Group

REGION/ SUBREGION	STATE/ PROV.	UTILITY SYSTEM	UNIT NAME	UNIT TYPE	SUMMER MW CAPABILITY	FUEL TYPE	PROJECTED SERVICE DATE	CONSTRUCTION STATUS	JOINTLY OWNED
MAIN/CE	IL	CECO	LASALLE COUNTY 2	NB	1048	UR	04/84	V	
MAIN/CE	IL	CECO	BYRON 1	NP	1120	UR	01/85	V	
MAIN/CE	IL	CECO	BRAIDWOOD 1	NP	1090	UR	04/86	V	
MAIN/CE	IL	CECO	BYRON 2	NP	1120	UR	04/86	V	
MAIN/CE	IL	CECO	BRAIDWOOD 2	NP	1090	UR	04/87	V	

East Missouri Group

REGION/ SUBREGION	STATE/ PROV.	UTILITY SYSTEM	UNIT NAME	UNIT TYPE	SUMMER MW CAPABILITY	FUEL TYPE	PROJECTED SERVICE DATE	CONSTRUCTION STATUS	JOINTLY OWNED
MAIN/E MO	MO	UE	CALLAWAY 1	NP	1120	UR	01/85	V	

South Central Illinois Group

REGION/ SUBREGION	STATE/ PROV.	UTILITY SYSTEM	UNIT NAME	UNIT TYPE	SUMMER MW CAPABILITY	FUEL TYPE	PROJECTED SERVICE DATE	CONSTRUCTION STATUS	JOINTLY OWNED
MAIN/SCILL	IL	IP	CLINTON 1	NB	950	UR	11/86	V	J
MAIN/SCILL	IL	CIL	PEAKER 1	GT	100	NG	06/89	P	
MAIN/SCILL	IL	WIPS	UNDESIGNATED	GT	24	FO2	**/90	P	
MAIN/SCILL	IL	CIL	PEAKER 2	CA	300	NG	06/90	P	

Wisconsin-Upper Michigan Group

REGION/ SUBREGION	STATE/ PROV.	UTILITY SYSTEM	UNIT NAME	UNIT TYPE	SUMMER MW CAPABILITY	FUEL TYPE	PROJECTED SERVICE DATE	CONSTRUCTION STATUS	JOINTLY OWNED
MAIN/WIUM	WI	WPS	MERRILL 3	HY	2	WAT	06/84	V	
MAIN/WIUM	WI	WPS	HAT RAPIDS 2	HY	0	WAT	08/84	V	
MAIN/WIUM	WI	WPS	HAT RAPIDS 3	HY	0	WAT	08/84	V	
MAIN/WIUM	WI	MPU	MANITOWOC 1	IC	5	OIL	01/85	L	
MAIN/WIUM	WI	MPU	MANITOWOC 2	IC	5	OIL	01/85	L	
MAIN/WIUM	WI	WPL	EDGEWATER 5	ST	380	SUB	03/85	V	J
MAIN/WIUM	WI	WEP	PLEASANT PRAIRIE 2	ST	580	SUB	07/85	V	
MAIN/WIUM	WI	KAUK	COMBINED LOCKS	HY	6	WAT	**/87	P	
MAIN/WIUM	WI	WPS	COGENERATION PLANT	ST	12	COL	12/87	P	
MAIN/WIUM	WI	WPS	HYDRO	HY	1	WAT	12/87	P	
MAIN/WIUM	WI	WPS	WOOD PLANT	ST	10	WD	12/90	P	

** Month undetermined.

PLANNED GENERATING UNIT ADDITIONS (1984-1993)
MAPP

TABLE 15

NPCC
WSCC
MAAC
ECAR
MAIN
SPP
SERC
ERCOT
MANITOBA
SASKAT-CHEWAN
MICHIGAN
NORTH DAKOTA
MIN
MONTANA
WISCONSIN
SOUTH DAKOTA
NEBRASKA
IOWA

MAPP–U.S.

REGION/ SUBREGION	STATE/ PROV.	UTILITY SYSTEM	UNIT NAME	UNIT TYPE	SUMMER MW CAPABILITY	FUEL TYPE	PROJECTED SERVICE DATE	CONSTRUCTION STATUS	JOINTLY OWNED
MAPP-U.S.	WI	NSP	LADYSMITH 3	HY	1	WAT	01/84	V	
MAPP-U.S.	ND	BEPC	ANTELOPE VALLEY 1	ST	460	LIG	07/84	V	
MAPP-U.S.	NE	NPPD	KINGSLEY HYDRO 1	HY	38	WAT	05/85	V	
MAPP-U.S.	ND	BEPC	ANTELOPE VALLEY 2	ST	460	LIG	06/86	U	J
MAPP-U.S.	MN	NSP	RIVERSIDE 7	ST	13	COL	05/87	P	
MAPP-U.S.	MN	NSP	SHERBURNE CO 3	ST	772	SUB	01/88	L	J
MAPP-U.S.	WI	NSP	JIM FALLS 4	HY	1	WAT	05/88	L	
MAPP-U.S.	MN	MP	BLANCHARD 3	HY	6	WAT	11/88	P	
MAPP-U.S.	ND	MDU	WILLISTON GT 4	CT	30	NG	05/90	L	
MAPP-U.S.	IA	IELP	GUTHERIE COUNTY 1	ST	550	COL	12/90	P	J
MAPP-U.S.	MN	NSP	HENNEPIN ISLAND 6	HY	1	WAT	05/92	P	
MAPP-U.S.	MN	NSP	HENNEPIN ISLAND 7	HY	1	WAT	05/92	P	
MAPP-U.S.	ND	OTP	SPIRITWOOD 1	ST	125	LIG	09/92	P	
MAPP-U.S.	ND	BEPC	ANTELOPE VALLEY 3	ST	500	LIG	11/92	L	J
MAPP-U.S.	WI	NSP	WISCONSIN COAL 1	ST	400	SUB	05/93	P	

MAPP–Canada

REGION/ SUBREGION	STATE/ PROV.	UTILITY SYSTEM	UNIT NAME	UNIT TYPE	SUMMER MW CAPABILITY	FUEL TYPE	PROJECTED SERVICE DATE	CONSTRUCTION STATUS	JOINTLY OWNED
MAPP-CAN.	SA	SPC	NIPAWIN 1	HY	84	WAT	12/85	U	
MAPP-CAN.	SA	SPC	NIPAWIN 2	HY	84	WAT	02/86	U	
MAPP-CAN.	SA	SPC	NIPAWIN 3	HY	84	WAT	05/86	U	
MAPP-CAN.	MB	MHEB	LIMESTONE 1	HY	120	WAT	11/92	L	
MAPP-CAN.	SA	SPC	FUTURE FOSSIL 1	ST	280	LIG	12/92	P	
MAPP-CAN.	MB	MHEB	LIMESTONE 2	HY	120	WAT	12/92	L	
MAPP-CAN.	MB	MHEB	LIMESTONE 3	HY	120	WAT	02/93	L	
MAPP-CAN.	MB	MHEB	LIMESTONE 4	HY	120	WAT	04/93	L	
MAPP-CAN.	MB	MHEB	LIMESTONE 5	HY	120	WAT	07/93	L	
MAPP-CAN.	MB	MHEB	LIMESTONE 6	HY	120	WAT	10/93	L	
MAPP-CAN.	MB	MHEB	LIMESTONE 7	HY	120	WAT	12/93	L	

PLANNED GENERATING UNIT ADDITIONS (1984-1993)
NPCC

TABLE 15

WSCC
MAPP
MAIN
ECAR
MAAC
SPP
SERC
ERCOT
ONTARIO
QUEBEC
NEW BRUNSWICK
VT
NH
ME
NEW YORK
MASS
RI
CONN

New York

REGION/ SUBREGION	STATE PROV	UTILITY SYSTEM	UNIT NAME	UNIT TYPE	SUMMER MW CAPABILITY	FUEL TYPE	PROJECTED SERVICE DATE	CONSTRUCTION STATUS	JOINTLY OWNED
NPCC/NY	NY	NEYE	SOMERSET	ST	625	BIT	11/84	U	
NPCC/NY	NY	LOIL	MITCHEL GARDENS 1	ST	16	REF	05/85	U	
NPCC/NY	NY	LOIL	MITCHEL GARDENS 2	ST	16	REF	05/85	U	
NPCC/NY	NY	POAS	PASNY NEW HYDRO	HY	2	WAT	06/85	P	
NPCC/NY	NY	LOIL	SHOREHAM	NB	809	UR	07/85	V	
NPCC/NY	NY	CEHG	HIGH FALLS	HY	2	WAT	10/85	P	
NPCC/NY	NY	NEYE	CADYVILLE	HY	3	WAT	03/86	P	
NPCC/NY	NY	POAS	PASNY NEW HYDRO	HY	9	WAT	03/86	P	
NPCC/NY	NY	POAS	PASNY NEW HYDRO	HY	3	WAT	03/86	P	
NPCC/NY	NY	NMPC	NINE MILE POINT 2	NP	1080	UR	11/86	V	
NPCC/NY	NY	NIMP	GLEN PARK	HY	16	WAT	01/88	P	
NPCC/NY	NY	NIMP	MINETTO	HY	2	WAT	01/88	P	
NPCC/NY	NY	NIMP	HIGH DAM	HY	3	WAT	06/88	P	
NPCC/NY	NY	NIMP	SHERMAN ISLAND	HY	4	WAT	06/88	P	
NPCC/NY	NY	NIMP	UNION	HY	3	WAT	01/89	P	
NPCC/NY	NY	NIMP	VARICK	HY	5	WAT	01/89	P	
NPCC/NY	NY	NIMP	TRENTON	HY	10	WAT	05/89	P	
NPCC/NY	NY	POAS	PASNY NEW HYDRO	HY	23	WAT	06/89	P	
NPCC/NY	NY	POAS	PASNY WOOD	ST	25	WOD	06/89	P	
NPCC/NY	NY	NIMP	SOUTH GLENS FALLS	HY	12	WAT	08/89	P	
NPCC/NY	NY	POAS	PASNY SOLID WASTE	ST	40	REF	06/90	P	
NPCC/NY	NY	POAS	NIAGARA FALLS	HY	300	WAT	09/90	P	
NPCC/NY	NY	POAS	PRATTSVILLE	PS	1000	WAT	09/90	P	
NPCC/NY	NY	NIMP	FULTON	HY	3	WAT	05/91	P	
NPCC/NY	NY	NIMP	HUDSON FALLS	HY	36	WAT	05/91	P	
NPCC/NY	NY	NIMP	MECHANICVILLE	HY	12	WAT	05/91	P	
NPCC/NY	NY	NIMP	OSWEGO FALLS WEST	HY	6	WAT	11/91	P	
NPCC/NY	NY	NIMP	SUGAR ISLAND	HY	2	WAT	11/91	P	
NPCC/NY	NY	NIMP	OSWEGATCHIE	HY	1	WAT	05/92	P	
NPCC/NY	NY	NIMP	FEEDER DAM	HY	2	WAT	06/93	P	

New England

REGION SUBREGION	STATE PROV	UTILITY SYSTEM	UNIT NAME	UNIT TYPE	SUMMER MW CAPABILITY	FUEL TYPE	PROJECTED SERVICE DATE	CONSTRUCTION STATUS	JOINTLY OWNED
NPCC/NE	VT	VTGP	J. C. MCNEIL 1	ST	50	WOD	02/84	V	
NPCC/NE	VT	VTGP	BARNET	HY	1	WAT	05/84	U	
NPCC/NE	RI	EUAS	PAWTUCKET 2	HY	0	WAT	06/84	P	
NPCC/NE	VT	VTGP	NORTH HARTLAND	HY	1	WAT	12/84	U	
NPCC/NE	VT	VTGP	PROCTOR 5	HY	1	WAT	12/84	U	
NPCC/NE	VT	VTGP	WRIGHTSVILLE	HY	1	WAT	01/85	U	
NPCC/NE	ME	CEMP	HIRAM HYDRO	HY	9	WAT	04/85	U	
NPCC/NE	NH	PSNH	ERROL	HY	2	WAT	11/85	P	
NPCC/NE	VT	VTGP	RUTLAND SOLID WASTE	ST	4	REF	11/85	T	
NPCC/NE	CT	NOEU	MILLSTONE 3	NP	1150	UR	05/86	V	
NPCC/NE	NH	PSNH	SEABROOK 1	NP	1150	UR	07/86	V	
NPCC/NE	ME	CEMP	UPPER & MIDDLE DAMS	HY	2	WAT	07/86	P	
NPCC/NE	VT	VTGP	FROG HOLLOW	HY	1	WAT	09/86	T	
NPCC/NE	VT	VTPG	BOLTON FALLS	HY	3	WAT	11/86	T	
NPCC/NE	VT	VTGP	ENOSBURG FALLS	HY	1	WAT	11/86	P	
NPCC/NE	VT	VTGP	HIGHGATE FALLS	HY	2	WAT	11/86	P	
NPCC/NE	NH	PSNH	MURPHY DAM	HY	2	WAT	11/86	P	
NPCC/NE	VT	VTGP	NORTH TROY	HY	0	WAT	11/86	P	
NPCC/NE	ME	CEMP	BRASSUA	HY	4	WAT	04/87	P	
NPCC/NE	ME	CEMP	CATARACT	HY	3	WAT	04/87	P	
NPCC/NE	ME	CEMP	WILLIAMS	HY	6	WAT	10/87	P	
NPCC/NE	VT	VTGP	BELDEN	HY	1	WAT	11/87	P	
NPCC/NE	ME	BAHE	PENOBSCOT RIVER 2	HY	4	WAT	11/87	P	
NPCC/NE	NH	PSNH	PSNH SITE A	HY	4	WAT	11/87	P	
NPCC/NE	ME	CEMP	LEWISTON	HY	25	WAT	04/88	P	
NPCC/NE	VT	VTGP	C. RUTLAND	HY	1	WAT	04/90	P	
NPCC/NE	VT	VTGP	HUNTINGTON FALLS	HY	2	WAT	04/90	P	
NPCC/NE	ME	BAHE	PENOBSCOT RIVER 3	HY	2	WAT	11/90	P	
NPCC/NE	NH	PSNH	SEABROOK 2	NP	1150	UR	12/90	U	
NPCC/NE	ME	BAHE	PENOBSCOT RIVER 4	HY	11	WAT	11/91	P	

CONTINUED

PLANNED GENERATING UNIT ADDITIONS (1984-1993)
NPCC

TABLE 15

WSCC
MAPP
MAIN
ECAR
MAAC
SPP
SERC
ERCOT
ONTARIO
QUÉBEC
NEW BRUNSWICK
VT
NH
ME
NEW YORK
MASS
RI
CONN

Ontario Hydro

REGION/ SUBREGION	STATE/ PROV.	UTILITY SYSTEM	UNIT NAME	UNIT TYPE	SUMMER MW CAPABILITY	FUEL TYPE	PROJECTED SERVICE DATE	CONSTRUCTION STATUS	JOINTLY OWNED
NPCC/ONT	ON	ONHY	PICKERING 6	CD	516	UR	04/84	V	
NPCC/ONT	ON	ONHY	BRUCE 6	CD	781	UR	06/84	V	
NPCC/ONT	ON	ONHY	BRUCE 5	CD	781	UR	09/84	V	
NPCC/ONT	ON	ONHY	ATIKOKAN 1	ST	206	COL	12/84	V	
NPCC/ONT	ON	ONHY	PICKERING 7	CD	516	UR	12/84	V	
NPCC/ONT	ON	ONHY	PICKERING 8	CD	516	UR	07/85	V	
NPCC/ONT	ON	ONHY	BRUCE 7	CD	781	UR	07/86	V	
NPCC/ONT	ON	ONHY	BRUCE 8	CD	781	UR	01/87	V	
NPCC/ONT	ON	ONHY	PARALLEL GENERATION	ZZ	35	UNK	01/88	P	
NPCC/ONT	ON	ONHY	DARLINGTON 2	CD	881	UR	05/88	U	
NPCC/ONT	ON	ONHY	PARALLEL GENERATION	ZZ	17	UNK	01/89	P	
NPCC/ONT	ON	ONHY	DARLINGTON 1	CD	881	UR	02/89	U	
NPCC/ONT	ON	ONHY	PARALLEL GENERATION	ZZ	18	UNK	01/90	P	
NPCC/ONT	ON	ONHY	PARALLEL GENERATION	ZZ	17	UNK	01/91	P	
NPCC/ONT	ON	ONHY	DARLINGTON 3	CD	881	UR	09/91	U	
NPCC/ONT	ON	ONHY	PARALLEL GENERATION	ZZ	18	UNK	01/92	P	
NPCC/ONT	ON	ONHY	DARLINGTON 4	CD	881	UR	08/92	U	
NPCC/ONT	ON	ONHY	LITTLE JACKFISH 1	HY	76	WAT	11/93	P	

Hydro-Québec

REGION/ SUBREGION	STATE/ PROV.	UTILITY SYSTEM	UNIT NAME	UNIT TYPE	SUMMER MW CAPABILITY	FUEL TYPE	PROJECTED SERVICE DATE	CONSTRUCTION STATUS	JOINTLY OWNED
NPCC/QUE	QB	HYQB	LG-4 1	HY	301	WAT	04/84	V	
NPCC/QUE	QB	HYQB	LG-4 2	HY	301	WAT	05/84	V	
NPCC/QUE	QB	HYQB	LG-4 3	HY	301	WAT	08/84	V	
NPCC/QUE	QB	HYQB	LG-4 4	HY	301	WAT	[illegible]/84	V	
NPCC/QUE	QB	HYQB	LG-4 5	HY	301	WAT	10/84	V	
NPCC/QUE	QB	HYQB	LG-4 6	HY	301	WAT	11/84	V	
NPCC/QUE	QB	HYQB	LG-4 7	HY	301	WAT	12/84	V	
NPCC/QUE	QB	HYQB	LG-4 8	HY	301	WAT	01/85	V	
NPCC/QUE	QB	HYQB	LG-4 9	HY	301	WAT	04/85	V	
NPCC/QUE	QB	HYQB	MANIC 5 P.A. 1	HY	163	WAT	06/92	U	
NPCC/QUE	QB	HYQB	MANIC 5 P.A. 2	HY	163	WAT	08/92	U	
NPCC/QUE	QB	HYQB	MANIC 5 P.A. 3	HY	163	WAT	10/92	U	
NPCC/QUE	QB	HYQB	MANIC 5 P.A. 4	HY	163	WAT	06/93	U	
NPCC/QUE	QB	HYQB	MANIC 5 P.A. 5	HY	163	WAT	08/93	U	
NPCC/QUE	QB	HYQB	MANIC 5 P.A. 6	HY	163	WAT	10/93	U	
NPCC/QUE	QB	HYQB	UNKNOWN	UN	400	UNK	10/93	P	

PLANNED GENERATING UNIT ADDITIONS (1984-1993)
SERC

TABLE 15

WSCC
MAPP
NPCC
MAAC
ECAR
MAIN
SPP
ERCOT
KENTUCKY
VIRGINIA
TENNESSEE
NORTH CAROLINA
SOUTH CAROLINA
ALABAMA
GEORGIA
MISSISSIPPI
FLORIDA

Florida Subregion

REGION SUBREGION	STATE PROV	UTILITY SYSTEM	UNIT NAME	UNIT TYPE	SUMMER MW CAPABILITY	FUEL TYPE	PROJECTED SERVICE DATE	CONSTRUCTION STATUS	JOINTLY OWNED
SERC/FLA	FL	FLPC	CRYSTAL RIVER 5	ST	697	BIT	12/84	V	
SERC/FLA	FL	SECI	SEMINOLE 2	ST	600	BIT	01/85	V	
SERC/FLA	FL	TALL	JACKSON BLUFF 1	HY	4	WAT	03/85	T	
SERC/FLA	FL	TAEC	BIG BEND 4	ST	419	BIT	04/85	V	
SERC/FLA	FL	TALL	JACKSON BLUFF 2	HY	4	WAT	06/85	T	
SERC/FLA	FL	TALL	JACKSON BLUFF 3	HY	3	WAT	12/85	T	
SERC/FLA	FL	JACO	ST. JOHNS 1	ST	552	BIT	04/87	U	J
SERC/FLA	FL	ORLA	STANTON 1	ST	415	BIT	08/87	U	J
SERC/FLA	FL	JACO	ST. JOHNS 2	ST	552	BIT	10/88	U	J
SERC/FLA	FL	SECI	TAYLOR PLANT 1	ST	600	BIT	01/92	P	
SERC/FLA	FL	TALL	UNNAMED	ST	400	BIT	03/93	P	

Southern Subregion

REGION SUBREGION	STATE PROV	UTILITY SYSTEM	UNIT NAME	UNIT TYPE	SUMMER MW CAPABILITY	FUEL TYPE	PROJECTED SERVICE DATE	CONSTRUCTION STATUS	JOINTLY OWNED
SERC/SOU	GA	SEPA	RICHARD B. RUSSELL 1	HY	75	WAT	11/84	V	
SERC/SOU	GA	SEPA	RICHARD B. RUSSELL 3	HY	75	WAT	03/85	V	
SERC/SOU	AL	ALAP	MITCHEL 5	HY	47	WAT	04/85	U	
SERC/SOU	AL	ALAP	MITCHEL 6	HY	47	WAT	04/85	U	
SERC/SOU	AL	ALAP	MITCHEL 7	HY	47	WAT	04/85	U	
SERC/SOU	AL	ALAP	MILLER 2	ST	666	BIT	05/85	V	
SERC/SOU	AL	GEPC	BARTLETTS FERRY 5	HY	50	WAT	11/85	U	
SERC/SOU	AL	GEPC	BARTLETTS FERRY 6	HY	50	WAT	11/85	U	
SERC/SOU	GA	GEPC	SCHERER 3	ST	808	BIT	02/87	U	J
SERC/SOU	GA	GEPC	VOGTLE 1	NP	1150	UR	03/87	U	J
SERC/SOU	GA	GEPC	ROCKY MOUNTAIN 1	PS	283	WAT	04/87	U	
SERC/SOU	GA	GEPC	ROCKY MOUNTAIN 2	PS	283	WAT	04/87	U	
SERC/SOU	GA	GEPC	ROCKY MOUNTAIN 3	PS	283	WAT	04/87	U	
SERC/SOU	AL	ALEC	1 UNIT 1	CT	50	FO2	06/88	P	
SERC/SOU	GA	GEPC	VOGTLE 2	NP	1150	UR	09/88	U	J
SERC/SOU	GA	GEPC	GOAT ROCK 7	HY	34	WAT	11/88	U	
SERC/SOU	GA	GEPC	GOAT ROCK 8	HY	34	WAT	11/88	U	
SERC/SOU	GA	GEPC	SCHERER 4	ST	808	BIT	02/89	U	J
SERC/SOU	AL	ALAP	MILLER 3	ST	666	BIT	05/89	U	
SERC/SOU	AL	ALEC	1 UNIT 2	CT	30	FO2	06/89	P	
SERC/SOU	GA	SEPA	RICHARD B. RUSSELL 5	PS	75	WAT	01/90	U	
SERC/SOU	AL	ALEC	1 UNIT 3	CT	30	FO2	06/90	P	
SERC/SOU	GA	SEPA	RICHARD B. RUSSELL 7	PS	75	WAT	07/90	U	
SERC/SOU	AL	ALAP	MILLER 4	ST	666	BIT	05/91	U	
SERC/SOU	AL	ALEC	1 UNIT 4	CT	50	FO2	06/91	P	
SERC/SOU	AL	ALAP	THURLOW 4	HY	40	WAT	01/92	V	
SERC/SOU	AL	ALAP	YATES 3	HY	30	WAT	01/92	V	
SERC/SOU	AL	ALEC	1 UNIT 5	ST	250	BIT	06/92	P	
SERC/SOU	**	SAEP	NOT AVAILABLE	ST	38	BIT	**/93	X	
SERC/SOU	**	ALEC	COMBUSTION TURBINE 1	GT	30	FO2	06/93	P	

** State undesignated.
**/93 Month undetermined.

PLANNED GENERATING UNIT ADDITIONS (1984-1993)
SERC

TABLE 15

NPCC
MAPP
MAAC
WSCC
ECAR
MAIN
SPP
ERCOT
KENTUCKY
VIRGINIA
TENNESSEE
NORTH CAROLINA
SOUTH CAROLINA
ALABAMA
GEORGIA
FLORIDA
MISSISSIPPI

Tennessee Valley Authority Subregion

REGION/ SUBREGION	STATE/ PROV.	UTILITY SYSTEM	UNIT NAME	UNIT TYPE	SUMMER MW CAPABILITY	FUEL TYPE	PROJECTED SERVICE DATE	CONSTRUCTION STATUS	JOINTLY OWNED
SERC/TVA	TN	TEVA	WATTS BAR 1	NP	1170	UR	11/84	V	
SERC/TVA	TN	TEVA	WATTS BAR 2	NP	1170	UR	10/86	V	
SERC/TVA	AL	TEVA	BELLEFONTE 1	NP	1177	UR	04/89	V	
SERC/TVA	AL	TEVA	BELLEFONTE 2	NP	1177	UR	04/91	V	

Virginia-Carolinas Subregion

REGION/ SUBREGION	STATE/ PROV.	UTILITY SYSTEM	UNIT NAME	UNIT TYPE	SUMMER MW CAPABILITY	FUEL TYPE	PROJECTED SERVICE DATE	CONSTRUCTION STATUS	JOINTLY OWNED
SERC/VACAR	SC	SOCA	CROSS SITE UNIT #2	ST	500	BIT	05/84	V	
SERC/VACAR	GA	SEPA	RICHARD B. RUSSELL 2	HY	75	WAT	08/84	V	
SERC/VACAR	GA	SEPA	RICHARD B. RUSSELL 4	HY	75	WAT	02/85	V	
SERC/VACAR	VA	VIEP	BATH COUNTY 1	PS	210	WAT	05/85	V	
SERC/VACAR	VA	VIEP	BATH COUNTY 2	PS	210	WAT	06/85	V	
SERC/VACAR	SC	DUPC	CATAWBA 1	NP	1145	UR	06/85	V	
SERC/VACAR	VA	VIEP	BATH COUNTY 3	PS	210	WAT	09/85	V	
SERC/VACAR	VA	VIEP	BATH COUNTY 4	PS	210	WAT	11/85	V	
SERC/VACAR	VA	VIEP	BATH COUNTY 5	PS	210	WAT	01/86	V	
SERC/VACAR	NC	CAPO	HARRIS 1	NP	900	UR	03/86	V	
SERC/VACAR	VA	VIEP	BATH COUNTY 6	PS	210	WAT	04/86	V	
SERC/VACAR	SC	DUPC	CATAWBA 2	NP	1145	UR	06/87	V	
SERC/VACAR	VA	VIEP	TWELFTH STREET 1	HY	11	WAT	01/88	P	
SERC/VACAR	GA	SEPA	RICHARD B. RUSSELL 6	PS	75	WAT	10/89	U	
SERC/VACAR	GA	SEPA	RICHARD B. RUSSELL 8	PS	75	WAT	04/90	U	
SERC/VACAR	NC	CAPO	MAYO 2	ST	720	COL	03/91	U	
SERC/VACAR	**	SOCG	UNDETERMINED	ST	300	COL	05/92	P	
SERC/VACAR	VA	VIEP	NEW CAPACITY 1	ST	750	COL	10/92	P	
SERC/VACAR	SC	SOCA	CROSS SITE UNIT #1	ST	500	BIT	05/93	I	
SERC/VACAR	VA	VIEP	NEW CAPACITY 2	ST	750	COL	10/93	P	

** State undesignated.

PLANNED GENERATING UNIT ADDITIONS (1984-1993)
SPP

TABLE 15

NPCC
MAPP
MAAC
ECAR
WSCC
MAIN
SERC
ERCOT
KANSAS
MISSOURI
OKLAHOMA
ARKANSAS
TEXAS
MISS
NEW MEXICO
LOUISIANA

GROUP A (Eastern Arkansas–Louisiana–Western Mississippi Area)

REGION/ SUBREGION	STATE/ PROV.	UTILITY SYSTEM	UNIT NAME	UNIT TYPE	SUMMER MW CAPABILITY	FUEL TYPE	PROJECTED SERVICE DATE	CONSTRUCTION STATUS	JOINTLY OWNED
SPP/GRP A	MS	MSUI	GRAND GULF 1	NB	1250[a]	UR	09/84	V	J
SPP/GRP A	LA	MSUI	WATERFORD 3	NP	1104	UR	12/84	V	
SPP/GRP A	AR	MSUI	INDEPENDENCE 2	ST	836	SUB	01/85	V	J
SPP/GRP A	LA	GUSU	RIVER BEND 1	NB	940	UR	12/85	V	J
SPP/GRP A	MS	MSUI	GRAND GULF 2	NB	1250	UR	04/90	U	J
SPP/GRP A	LA	MSUI	WILTON 1	ST	800	COL	01/93	P	
SPP/GRP A	LA	GUSU	NELSON 5	ST	540	SUB	12/93	P	

GROUP B (Western Arkansas–Oklahoma Area)

REGION/ SUBREGION	STATE PROV	UTILITY SYSTEM	UNIT NAME	UNIT TYPE	SUMMER MW CAPABILITY	FUEL TYPE	PROJECTED SERVICE DATE	CONSTRUCTION STATUS	JOINTLY OWNED
SPP/GRP B	OK	OKGE	MUSKOGEE 6	ST	515	SUB	06/84	V	
SPP/GRP B	MO	SWPA	CLARENCE CANNON 1	PS	28	WAT	11/84	V	
SPP/GRP B	MO	SWPA	CLARENCE CANNON 2	HY	32	WAT	11/84	V	
SPP/GRP B	TX	SOEP	PIRKEY 1	ST	640	LIG	02/85	V	J
SPP/GRP B	OK	GRRD	GRDA 2	ST	520	BIT	06/85	V	
SPP/GRP B	TX	SWPS	TOLK 2	ST	508	SUB	06/85	V	
SPP/GRP B	LA	SOEP	DOLET HILLS 1	ST	640	LIG	02/86	U	J
SPP/GRP B	OK	OKGE	UNKNOWN	GT	300	FO2	05/89	P	
SPP/GRP B	OK	OKGE	UNKNOWN	GT	200	FO2	05/90	P	
SPP/GRP B	TX	SWPS	SPS 6	ST	525	SUB	06/90	T	
SPP/GRP B	OK	OKGE	UNKNOWN	GT	200	FO2	05/91	P	
SPP/GRP B	TX	SOEP	WALKER COUNTY A 1	ST	640[b]	LIG	12/91	P	J
SPP/GRP B	OK	OKGE	UNKNOWN	ST	500	SUB	05/92	P	
SPP/GRP B	OK	PSOK	INOLA 1	ST	640[c]	SUB	12/92	L	J
SPP/GRP B	TX	SWPS	SPS 7	ST	525	SUB	06/93	P	
SPP/GRP B	OK	OKGE	UNKNOWN	GT	300	FO2	06/93	P	
SPP/GRP B	**	CESW	UNDETERMINED	ST	640[d]	BIT	12/93	P	J

GROUP C (West Missouri–Kansas Area)

REGION/ SUBREGION	STATE/ PROV.	UTILITY SYSTEM	UNIT NAME	UNIT TYPE	SUMMER MW CAPABILITY	FUEL TYPE	PROJECTED SERVICE DATE	CONSTRUCTION STATUS	JOINTLY OWNED
SPP/GRP C	KS	KAGE	WOLF CREEK 1	NP	1150	UR	04/85	V	J
SPP/GRP C	MO	MIPU	UNKNOWN	GT	44	NG	05/86	P	
SPP/GRP C	MO	EMDE	ASBURY 2	ST	20	BIT	06/86	T	
SPP/GRP C	MO	MIPU	GREENWOOD 1	GT	5	FO2	05/88	P	
SPP/GRP C	MO	MIPU	GREENWOOD 2	GT	5	FO2	05/88	P	
SPP/GRP C	MO	MIPU	GREENWOOD 3	GT	5	FO2	05/88	P	
SPP/GRP C	MO	MIPU	GREENWOOD 4	GT	5	FO2	05/88	P	
SPP/GRP C	MO	STJO	LAKE ROAD 6	GT	60	FO2	05/90	P	
SPP/GRP C	MO	MIPU	UNKNOWN	ST	100	BIT	05/90	P	
SPP/GRP C	MO	ASEC	UNDETERMINED	ST	630	BIT	06/91	P	
SPP/GRP C	MO	EMDE	UNKNOWN	ST	150	COL	06/92	P	J

a/ 125 MW of 1250 MW Grand Gulf unit capacity to participant in Southern Subregion of SERC.
b/ 274 MW of 640 MW Walker County unit capacity to participants in ERCOT Region.
c/ 152 MW of 640 MW Inola unit capacity to participants in ERCOT Region.
d/ 283 MW of 640 MW unnamed unit capacity to participants in ERCOT Region.
** State undesignated.

CONTINUED

PLANNED GENERATING UNIT ADDITIONS (1984-1993)

WSCC

TABLE 15

Northwest Power Pool Area

NPCC
MAPP
ECAR
MAAC
MAIN
SPP
SERC
ERCOT
BRITISH COLUMBIA
ALBERTA
WASHINGTON
MONTANA
SOUTH DAKOTA
OREGON
IDAHO
WYOMING
NEVADA
UTAH
COLORADO
CALIFORNIA
ARIZONA
NEW MEXICO
TEXAS

REGION/ SUBREGION	STATE/ PROV.	UTILITY SYSTEM	UNIT NAME	UNIT TYPE	SUMMER MW CAPABILITY	FUEL TYPE	PROJECTED SERVICE DATE	CONSTRUCTION STATUS	JOINTLY OWNED
WSCC/NWPP	UT	UPLC	MILFORD 1	GE	20	GST	04/84	V	
WSCC/NWPP	WA	TCL	P.E.C. 66.0 1	HY	2	WAT	04/84	V	J
WSCC/NWPP	WA	GCPD	QUINCY CHUTE	HY	9	WAT	05/84	V	J
WSCC/NWPP	WA	SHPD	SULTAN A 1	HY	48	WAT	06/84	V	
WSCC/NWPP	WA	SHPD	SULTAN A 2	HY	48	WAT	06/84	V	
WSCC/NWPP	WA	SHPD	SULTAN B 1	HY	9	WAT	06/84	V	
WSCC/NWPP	WA	SHPD	SULTAN B 2	HY	9	WAT	06/84	V	
WSCC/NWPP	MT	USCE	LIBBY UNIT 5	HY	121	WAT	10/84	V	
WSCC/NWPP	WA	TCL	SUMMER FALLS 1	HY	46	WAT	10/84	V	J
WSCC/NWPP	WA	TCL	SUMMER FALLS 2	HY	46	WAT	10/84	V	J
WSCC/NWPP	UT	DGT	BONANZA 1	ST	400	BIT	01/85	V	
WSCC/NWPP	ID	IPC	COGEN NO. 3	CG	35	UNK	01/85	P	
WSCC/NWPP	NV	SPP	VALMY 2	ST	250	BIT	06/85	U	J
WSCC/NWPP	MT	MPC	COLSTRIP 4	ST	700	BIT	07/85	V	J
WSCC/NWPP	WA	SCL	BOUNDARY 55	HY	0	WAT	09/85	U	
WSCC/NWPP	ID	IPC	COGEN NO. 4	CG	34	UNK	01/86	P	
WSCC/NWPP	WA	SCL	BOUNDARY 56	HY	0	WAT	02/86	U	
WSCC/NWPP	WA	TCL	MAIN CANAL HEADWORKS	HY	22	WAT	04/86	T	J
WSCC/NWPP	ID	IPC	COGEN NO. 5	CG	10	UNK	01/87	P	
WSCC/NWPP	WA	SCL	SOUTH FORK TOLT	HY	15	WAT	04/87	L	
WSCC/NWPP	OR	USCE	BONNEVILE FW SITE 3	HY	2	WAT	09/87	T	
WSCC/NWPP	OR	USCE	BONNEVILLE FW SITE 4	HY	3	WAT	09/87	T	
WSCC/NWPP	WA	USCE	BONNEVILLE FW SITE 6	HY	3	WAT	09/87	T	
WSCC/NWPP	ID	IPC	COGEN NO. 6	CG	10	UNK	01/88	P	
WSCC/NWPP	ID	IPC	SWAN FALLS REBUILD	HY	13	WAT	01/88	L	
WSCC/NWPP	ID	IPC	COGEN NO. 7	CG	10	UNK	01/89	P	
WSCC/NWPP	OR	USCE	STRUBE UNIT 1	HY	5	WAT	06/89	T	
WSCC/NWPP	OR	USCE	COUGAR UNIT 3	HY	40	WAT	07/89	T	
WSCC/NWPP	WA	BPA	WNP 3	NP	1240	UR	12/89	V	J
WSCC/NWPP	ID	IPC	COGEN NO. 8	CG	10	UNK	01/90	P	
WSCC/NWPP	OR	USCE	BLUE R LAKE PH UNIT 1	HY	10	WAT	06/90	P	
WSCC/NWPP	OR	USCE	BLUE R LAKE PH UNIT 2	HY	10	WAT	06/90	P	
WSCC/NWPP	OR	USCE	MCNARY 2ND PH 15	HY	129	WAT	08/90	P	
WSCC/NWPP	WA	USCE	WYNOOCHEE UNIT 1	HY	2	WAT	10/90	P	
WSCC/NWPP	WA	USCE	WYNOOCHEE UNIT 2	HY	4	WAT	10/90	P	
WSCC/NWPP	WA	USCE	WYNOOCHEE UNIT 3	HY	4	WAT	10/90	P	
WSCC/NWPP	OR	USCE	MCNARY 2ND PH 16	HY	129	WAT	11/90	P	
WSCC/NWPP	ID	IPC	COGEN NO. 9	CG	10	UNK	01/91	P	
WSCC/NWPP	OR	USCE	MCNARY 2ND PH 17	HY	129	WAT	02/91	P	
WSCC/NWPP	OR	USCE	MCNARY 2ND PH 18	HY	129	WAT	05/91	P	
WSCC/NWPP	UT	UPLC	HUNTER 4	ST	400	BIT	06/91	P	
WSCC/NWPP	WA	BPA	WNP 1	NP	1250	UR	06/91	V	J
WSCC/NWPP	OR	USCE	MCNARY 2ND PH 19	HY	129	WAT	08/91	P	
WSCC/NWPP	OR	USCE	MCNARY 2ND PH 20	HY	129	WAT	11/91	P	
WSCC/NWPP	ID	IPC	COGEN NO. 10	CG	10	UNK	01/92	P	
WSCC/NWPP	ID	IPC	COGEN NO. 11	CG	10	UNK	01/93	P	

NPCC
ECAR
MAAC
SERC
SPP
ERCOT
BRITISH COLUMBIA
ALBERTA
WASHINGTON
MONTANA
SOUTH DAKOTA
OREGON
IDAHO
WYOMING
NEVADA
UTAH
COLORADO
CALIFORNIA
ARIZONA
NEW MEXICO
TEXAS

PLANNED GENERATING UNIT ADDITIONS (1984-1993)
WSCC

TABLE 15

Rocky Mountain Power Area

REGION SUBREGION	STATE PROV.	UTILITY SYSTEM	UNIT NAME	UNIT TYPE	SUMMER MW CAPABILITY	FUEL TYPE	PROJECTED SERVICE DATE	CONSTRUCTION STATUS	JOINTLY OWNED
WSCC/RMPA	CO	PRPA	RAWHIDE 1	ST	250	BIT	04/84	V	
WSCC/RMPA	CO	CUEA	CRAIG 3	ST	400	BIT	05/84	V	
WSCC/RMPA	CO	USLM	MOUNT ELBERT 2	PS	100	WAT	08/84	V	
WSCC/RMPA	CO	PRPA	BUTTONROCK	HY	3	WAT	04/86	L	
WSCC/RMPA	CO	USUC	MCPHEE POWER PLANT	HY	1	WAT	01/87	P	
WSCC/RMPA	CO	CUEA	TACOMA 4	HY	14	WAT	01/88	P	
WSCC/RMPA	CO	USUC	TOWAOC	HY	11	WAT	10/89	P	
WSCC/RMPA	CO	USUC	RIDGEWAY POWER PLANT	HY	4	WAT	12/89	P	
WSCC/RMPA	CO	PSC	PAWNEE 2	ST	485	BIT	04/90	L	
WSCC/RMPA	CO	CCS	NIXON 2	ST	350	BIT	10/92	P	
WSCC/RMPA	CO	PSC	UNSITED COAL 1	ST	250	BIT	04/93	P	

Arizona-New Mexico Power Area

REGION/ SUBREGION	STATE/ PROV.	UTILITY SYSTEM	UNIT NAME	UNIT TYPE	SUMMER MW CAPABILITY	FUEL TYPE	PROJECTED SERVICE DATE	CONSTRUCTION STATUS	JOINTLY OWNED
WSCC/AZ-NM	CA	IID	DROP 1 (3)	HY	5	WAT	06/84	V	
WSCC/AZ-NM	CA	IID	EAST HIGHLINE 1	HY	2	WAT	06/84	V	
WSCC/AZ-NM	AZ	APS	PALO VERDE 1	NP	1270	UR	12/84	V	J
WSCC/AZ-NM	NM	PEGT	PEGS 1	ST	210	BIT	12/84	V	
WSCC/AZ-NM	AZ	TEP	SPRINGERVILLE 1	ST	330	SUB	06/85	V	
WSCC/AZ-NM	AZ	APS	PALO VERDE 2	NP	1270	UR	09/85	V	J
WSCC/AZ-NM	AZ	APS	PALO VERDE 3	NP	1270	UR	12/86	U	J
WSCC/AZ-NM	AZ	TEP	SPRINGERVILLE 2	ST	330	SUB	06/87	U	
WSCC/AZ-NM	AZ	SRP	CORONADO 3	ST	350	SUB	05/91	U	
WSCC/AZ-NM	AZ	TEP	SPRINGERVILLE 3	ST	330	SUB	06/91	T	
WSCC/AZ-NM	AZ	APS	PEAKING 1	GT	100	FO2	06/92	P	
WSCC/AZ-NM	AZ	APS	CHOLLA 5	ST	340	SUB	06/93	P	

CONTINUED

PLANNED GENERATING UNIT ADDITIONS (1984-1993)
WSCC

TABLE 15

NPCC
MAPP
MAAC
ECAR
MAIN
SPP
SERC
ERCOT
BRITISH COLUMBIA
ALBERTA
WASHINGTON
MONTANA
SOUTH DAKOTA
OREGON
IDAHO
WYOMING
NEVADA
UTAH
COLORADO
CALIFORNIA
ARIZONA
NEW MEXICO
TEXAS

California-Southern Nevada Power Area

REGION SUBREGION	STATE PROV.	UTILITY SYSTEM	UNIT NAME	UNIT TYPE	SUMMER MW CAPABILITY	FUEL TYPE	PROJECTED SERVICE DATE	CONSTRUCTION STATUS	JOINTLY OWNED
WSCC/CA-SNV	CA	PG&E	HELMS PUMPED STORAGE 2	PS	394	WAT	04/84	V	
WSCC/CA-SNV	CA	SCE	SAN ONOFRE 3	NP	1100	UR	04/84	V	J
WSCC/CA-SNV	CA	PG&E	HELMS PUMPED STORAGE 3	PS	394	WAT	05/84	V	
WSCC/CA-SNV	CA	SCE	BIOMASS	GT	1	REF	06/84	P	
WSCC/CA-SNV	CA	SCE	BIOMASS	IC	3	REF	06/84	P	
WSCC/CA-SNV	CA	SCE	BIOMASS	GT	2	REF	06/84	P	
WSCC/CA-SNV	CA	SCE	BIOMASS CENTRAL PLANT	IC	0	REF	06/84	P	
WSCC/CA-SNV	CA	LDWP	COGENERATION	CG	8	UNK	06/84	P	
WSCC/CA-SNV	CA	PG&E	DIABLO CANYON 1	NP	1086	UR	06/84	V	
WSCC/CA-SNV	CA	MID	MCCLURE 1	GT	6	FO2	06/84	P	
WSCC/CA-SNV	CA	MID	MCCLURE 2	GT	6	FO2	06/84	P	
WSCC/CA-SNV	CA	PG&E	OXY GEOTHERMAL	GE	80	GST	06/84	V	
WSCC/CA-SNV	CA	PG&E	ROAN SOLAR	SO	9	SUN	06/84	V	
WSCC/CA-SNV	CA	PG&E	SLO SALINAS RES	HY	0	WAT	06/84	T	
WSCC/CA-SNV	CA	SMUD	SOLAR 1	SO	1	SUN	06/84	V	
WSCC/CA-SNV	CA	PG&E	WOOD WASTE	CG	40	ZZ	06/84	L	
WSCC/CA-SNV	CA	SCE	GEOTHERMAL	GE	7	GST	07/84	V	
WSCC/CA-SNV	CA	SCE	GEOTHERMAL E MESA	GE	8	GST	07/84	V	
WSCC/CA-SNV	CA	MWD	RIO HONDO 1	HY	2	WAT	07/84	V	
WSCC/CA-SNV	CA	SCE	SMALL COGENERATION	CG	22	UNK	07/84	U	
WSCC/CA-SNV	CA	SCE	SMALL HYDRO	HY	1	WAT	07/84	V	
WSCC/CA-SNV	CA	SCE	WIND	WM	9	WND	07/84	U	
WSCC/CA-SNV	CA	MWD	COYOTE CR 1	HY	3	WAT	08/84	V	
WSCC/CA-SNV	CA	SCE	BIOMASS	IC	2	REF	09/84	P	
WSCC/CA-SNV	CA	SCE	BIOMASS	IC	4	REF	09/84	P	
WSCC/CA-SNV	CA	SCE	BIOMASS	IC	2	REF	09/84	P	
WSCC/CA-SNV	CA	SCE	BIOMASS C. PLANT	IC	0	REF	09/84	P	
WSCC/CA-SNV	CA	PG&E	OIL FIELD COGEN OFP 4	CG	6	CRU	09/84	T	
WSCC/CA-SNV	CA	SCE	SMALL COGENERATION	CG	22	NG	09/84	V	
WSCC/CA-SNV	CA	CDWR	BOTTLE ROCK	GE	55	GST	10/84	V	
WSCC/CA-SNV	CA	MWD	RED MOUNTAIN 1	HY	6	WAT	10/84	U	
WSCC/CA-SNV	CA	PG&E	LOCKHEED SUNNYVALE	CG	[illegible]	NG	11/84	T	
WSCC/CA-SNV	CA	PG&E	GENERIC WIND	WM	[illegible]	WND	12/84	P	
WSCC/CA-SNV	CA	SCE	SOLAR	SO	2	SUN	12/84	P	
WSCC/CA-SNV	CA	SCE	SOLAR	SO	4	SUN	12/84	P	
WSCC/CA-SNV	CA	PG&E	CHAMBER JACKASS DIV	HY	0	WAT	01/85	L	
WSCC/CA-SNV	CA	PG&E	FPA FRIANT	HY	6	WAT	01/85	T	
WSCC/CA-SNV	CA	MID	NEW HOGAN DAM	HY	3	WAT	01/85	T	
WSCC/CA-SNV	CA	MWD	VALLEY VIEW 1	HY	4	WAT	02/85	U	
WSCC/CA-SNV	CA	PG&E	OIL FIELD COGEN OFP 5	CG	7	CRU	03/85	P	
WSCC/CA-SNV	CA	PG&E	DIABLO CANYON 2	NP	1119	UR	04/85	V	
WSCC/CA-SNV	CA	PG&E	PROJ A NEWCASTLE	HY	2	WAT	05/85	L	
WSCC/CA-SNV	CA	SCE	BIOMASS	IC	2	REF	06/85	L	
WSCC/CA-SNV	CA	SMUD	CAMP FAR WEST	HY	0	WAT	06/85	U	
WSCC/CA-SNV	CA	SCE	GEOTHERMAL	GE	9	GST	06/85	V	
WSCC/CA-SNV	CA	PG&E	MOSS LANDING GAS EXPANDER	CG	6	NG	06/85	P	
WSCC/CA-SNV	CA	PG&E	ROAN SOLAR	SO	6	SUN	06/85	P	
WSCC/CA-SNV	CA	SCE	BIOMASS	ST	25	ZZ	07/85	P	
WSCC/CA-SNV	CA	CDWR	CASTAIC OUTLET	HY	1	WAT	07/85	P	
WSCC/CA-SNV	CA	CDWR	PYRAMID OUTLET	HY	1	WAT	07/85	P	

PLANNED GENERATING UNIT ADDITIONS (1984-1993)

WSCC

TABLE 15

NPCC
MAPP
MAAC
ECAR
SPP
SERC
ERCOT
BRITISH COLUMBIA
ALBERTA
WASHINGTON
MONTANA
SOUTH DAKOTA
OREGON
IDAHO
WYOMING
NEVADA
UTAH
COLORADO
CALIFORNIA
ARIZONA
NEW MEXICO
TEXAS

California-Southern Nevada Power Area

REGION SUBREGION	STATE PROV	UTILITY SYSTEM	UNIT NAME	UNIT TYPE	SUMMER MW CAPABILITY	FUEL TYPE	PROJECTED SERVICE DATE	CONSTRUCTION STATUS	JOINTLY OWNED
WSCC/CA-SNV	CA	SCE	SMALL COGENERATION	CG	56	UNK	07/85	P	
WSCC/CA-SNV	CA	SCE	SOLAR	SO	15	SUN	07/85	V	
WSCC/CA-SNV	CA	CDWR	SUTTER BUTTE	HY	2	WAT	07/85	P	
WSCC/CA-SNV	CA	SCE	WIND	WM	10	WND	07/85	P	
WSCC/CA-SNV	CA	CDWR	ALAMO 1	HY	17	WAT	09/85	V	
WSCC/CA-SNV	CA	NCPA	GEOTHERMAL PROJ 3	GE	110	GST	09/85	U	
WSCC/CA-SNV	CA	PG&E	OIL FIELD COGEN OFP 6	CG	6	CRU	09/85	P	
WSCC/CA-SNV	CA	SNCL	STONY GORGE DAM	HY	5	WAT	09/85	U	
WSCC/CA-SNV	CA	CDWR	THERMALITO AFTERBAY	HY	13	WAT	09/85	U	
WSCC/CA-SNV	CA	PG&E	PROJ B OAK FLAT	HY	1	WAT	10/85	T	
WSCC/CA-SNV	CA	PG&E	SLD WSTE RECOVERY SF	CG	40	REF	10/85	P	
WSCC/CA-SNV	CA	PG&E	PROJ C	HY	2	WAT	11/85	P	
WSCC/CA-SNV	CA	SCE	SMALL HYDRO	HY	5	WAT	11/85	U	
WSCC/CA-SNV	CA	PG&E	GENERIC WIND	WM	9	WND	12/85	P	
WSCC/CA-SNV	CA	SCE	GEOTHERMAL	GE	5	GST	12/85	P	
WSCC/CA-SNV	CA	PG&E	GEYSERS 16	GE	110	GST	12/85	U	
WSCC/CA-SNV	CA	PG&E	GEYSERS 20	GE	110	GST	12/85	U	
WSCC/CA-SNV	CA	SCE	LARGE COGENERATION	CG	175	NG	12/85	U	
WSCC/CA-SNV	CA	SCE	SOLAR	SO	10	SUN	12/85	P	
WSCC/CA-SNV	CA	SCE	BIOMASS CENTRAL PLANT	IC	1	REF	01/86	U	
WSCC/CA-SNV	CA	SNCL	BLACK BUTE DAM	HY	6	WAT	01/86	T	
WSCC/CA-SNV	CA	SMUD	COMBUSTION TURBINE 1	GT	50	NG	01/86	L	
WSCC/CA-SNV	CA	PG&E	CPL	CG	50	ZZ	01/86	T	
WSCC/CA-SNV	CA	SCE	GEOTHERMAL 1	GE	47	GST	01/86	U	
WSCC/CA-SNV	CA	SNCL	HIGH LINE CANAL	HY	0	WAT	01/86	I	
WSCC/CA-SNV	CA	SMUD	JONES FORK	HY	10	WAT	01/86	U	
WSCC/CA-SNV	CA	CCSF	MOCCASIN	HY	2	WAT	01/86	P	
WSCC/CA-SNV	CA	MID	MSR 1	GE	10	GST	01/86	P	J
WSCC/CA-SNV	CA	CCSF	O'SHAUGHNESSY	HY	3	WAT	01/86	P	
WSCC/CA-SNV	CA	PG&E	SMALL HYDRO PROJ F	HY	1	WAT	01/86	L	
WSCC/CA-SNV	CA	PG&E	SMALL HYDRO PROJ F	HY	0	WAT	01/86	I	
WSCC/CA-SNV	CA	SMUD	SOLAR 2	SO	1	SUN	01/86	T	
WSCC/CA-SNV	CA	MID	UNNAMED HYDRO 1	HY	2	WAT	01/86	P	
WSCC/CA-SNV	CA	RDNG	WHISKEYTOWN	HY	1	WAT	01/86	T	
WSCC/CA-SNV	CA	PG&E	PROJ I-TOADTOWN	HY	1	WAT	02/86	T	
WSCC/CA-SNV	CA	LDWP	COGENERATION	CG	6	UNK	03/86	P	
WSCC/CA-SNV	CA	PG&E	OIL FIELD COGEN OFP 7	CG	6	CRU	03/86	T	
WSCC/CA-SNV	CA	PG&E	PROJ H SCOTT DAM	HY	1	WAT	03/86	I	
WSCC/CA-SNV	CA	PG&E	SMALL HYDRO PROJ N	HY	2	WAT	03/86	P	
WSCC/CA-SNV	CA	CDWR	SOUTH GEYSERS	GE	55	GST	03/86	U	
WSCC/CA-SNV	CA	PG&E	BELDEN YELLOW CREEK	HY	0	WAT	05/86	I	
WSCC/CA-SNV	CA	RDNG	NORTH FORK	HY	0	WAT	05/86	L	
WSCC/CA-SNV	CA	LDWP	COGENERATION	CG	28	UNK	06/86	P	
WSCC/CA-SNV	CA	GLEN	SCHOLL CANYON 2	IC	5	REF	06/86	P	
WSCC/CA-SNV	CA	MWD	SKINNER 1	HY	1	WAT	06/86	T	
WSCC/CA-SNV	CA	CDWR	THERMALITO DIV. DAM	HY	3	WAT	06/86	U	
WSCC/CA-SNV	CA	SCE	BIOMASS	ST	45	UNK	07/86	P	
WSCC/CA-SNV	CA	SCE	BIOMASS	ST	5	REF	07/86	P	
WSCC/CA-SNV	CA	SCE	BIOMASS	ST	40	REF	07/86	T	
WSCC/CA-SNV	UT	LDWP	INTERMOUNTAIN 1	ST	761	BIT	07/86	U	J

CONTINUED

PLANNED GENERATING UNIT ADDITIONS (1984-1993)
WSCC

TABLE 15

NPCC
MAPP
MAAC
ECAR
SPP
SERC
ERCOT
BRITISH COLUMBIA
ALBERTA
WASHINGTON
MONTANA
SOUTH DAKOTA
OREGON
IDAHO
WYOMING
NEVADA
UTAH
COLORADO
CALIFORNIA
ARIZONA
NEW MEXICO
TEXAS

California-Southern Nevada Power Area

REGION SUBREGION	STATE PROV	UTILITY SYSTEM	UNIT NAME	UNIT TYPE	SUMMER MW CAPABILITY	FUEL TYPE	PROJECTED SERVICE DATE	CONSTRUCTION STATUS	JOINTLY OWNED
WSCC/CA-SNV	CA	CDWR	MOJAVE SIPHON 1	HY	7	WAT	07/86	U	
WSCC/CA-SNV	CA	PG&E	OID & SJID SAND BAR	HY	12	WAT	07/86	L	
WSCC/CA-SNV	CA	SCE	SOLAR	SO	30	SUN	07/86	P	
WSCC/CA-SNV	CA	SCE	SOLAR SALT POND	SO	13	SUN	07/86	P	
WSCC/CA-SNV	CA	SCE	WIND	WM	19	WND	07/86	P	
WSCC/CA-SNV	CA	PG&E	OIL FIELD COGEN OFP 8	CG	6	CRU	09/86	P	
WSCC/CA-SNV	CA	SCE	GEOTHERMAL	GE	25	GST	10/86	U	
WSCC/CA-SNV	CA	LDWP	COGENERATION	CG	51	UNK	12/86	P	
WSCC/CA-SNV	CA	SCE	DEMOCRAT	HY	1	WAT	12/86	P	
WSCC/CA-SNV	CA	PG&E	GENERIC WIND	WM	22	WND	12/86	P	
WSCC/CA-SNV	CA	CDWR	LAKE ISABELLA DAM	HY	8	WAT	12/86	L	
WSCC/CA-SNV	CA	PG&E	SMALL HYDRO PROJ K	HY	3	WAT	12/86	P	
WSCC/CA-SNV	CA	PG&E	GENERIC WIND	WM	20	WND	01/87	P	
WSCC/CA-SNV	CA	MID	KAISER CREEK	HY	0	WAT	01/87	P	
WSCC/CA-SNV	CA	PG&E	MOKELUMNE IMPROVEMENTS	HY	3	WAT	01/87	L	
WSCC/CA-SNV	CA	PG&E	PROJ G1 DOAKS PH PIONEER	HY	1	WAT	01/87	L	
WSCC/CA-SNV	CA	PG&E	PROJ G2 MOKELUMNE	HY	1	WAT	01/87	L	
WSCC/CA-SNV	CA	PG&E	PROJ G3 WEST PT UNIT 2	HY	7	WAT	01/87	L	
WSCC/CA-SNV	CA	PG&E	PROJ G4 SALT SPRINGS 3	HY	6	WAT	01/87	L	
WSCC/CA-SNV	CA	PG&E	SMALL HYDRO BUCKS PROJ	HY	17	WAT	01/87	L	
WSCC/CA-SNV	CA	PG&E	SMALL HYDRO PROJ D	HY	1	WAT	01/87	L	
WSCC/CA-SNV	CA	PG&E	OIL FIELD COGEN OFP 9	CG	6	CRU	03/87	P	
WSCC/CA-SNV	CA	SCE	BISHOP CREEK 1	HY	3	WAT	04/87	U	
WSCC/CA-SNV	CA	SCE	GEOTHERMAL 2	GE	9	GST	06/87	V	
WSCC/CA-SNV	CA	SMUD	SOLAR 3	SO	5	SUN	06/87	P	
WSCC/CA-SNV	CA	SCE	GEOTHERMAL	GE	25	GST	07/87	P	
WSCC/CA-SNV	UT	LDWP	INTERMOUNTAIN 2	ST	761	BIT	07/87	U	J
WSCC/CA-SNV	CA	PG&E	PROJ J PH CRESTA DAM	HY	0	WAT	07/87	L	
WSCC/CA-SNV	CA	PG&E	PROJ J PH ROCK CREEK DAM	HY	1	WAT	07/87	L	
WSCC/CA-SNV	CA	SCE	SOLAR SALT POND	SO	35	SUN	07/87	P	
WSCC/CA-SNV	CA	SCE	WIND	WM	19	WND	07/87	P	
WSCC/CA-SNV	CA	NCPA	CALAVERAS HYDRO PROJ	HY	200	WAT	09/87	T	
WSCC/CA-SNV	CA	PG&E	OIL FIELD COGEN OFP 10	CG	6	CRU	09/87	P	
WSCC/CA-SNV	CA	SCE	SMALL HYDRO	HY	5	WAT	11/87	U	
WSCC/CA-SNV	CA	PG&E	GEYSERS 21	GE	110	GST	12/87	P	
WSCC/CA-SNV	CA	SCE	BALSAM MEADOW HYDRO	HY	200	WAT	01/88	T	
WSCC/CA-SNV	CA	SMUD	CCPA 1	GE	55	GST	01/88	P	J
WSCC/CA-SNV	CA	PG&E	GENERIC WIND	WM	20	WND	01/88	P	
WSCC/CA-SNV	CA	SDGE	HEBER	GE	45	GST	01/88	U	J
WSCC/CA-SNV	CA	MID	LAGRANGE HYDRO	HY	0	WAT	01/88	P	
WSCC/CA-SNV	CA	PG&E	PROJ J CRESTA PH UNIT 3	HY	18	WAT	01/88	L	
WSCC/CA-SNV	CA	PG&E	PROJ J ROCK CREEK UNIT 3	HY	36	WAT	01/88	L	
WSCC/CA-SNV	CA	SCE	SALMON CREEK	HY	2	WAT	01/88	P	
WSCC/CA-SNV	CA	PG&E	UNIDENTIFIED SMALL HYDRO	HY	10	WAT	01/88	P	
WSCC/CA-SNV	CA	PG&E	OIL FIELD COGEN OFP 11	CG	6	CRU	03/88	P	
WSCC/CA-SNV	CA	RDNG	LAKE RED BLUFF	HY	4	WAT	05/88	L	
WSCC/CA-SNV	CA	RDNG	LAKE REDDING	HY	8	WAT	05/88	L	
WSCC/CA-SNV	CA	RDNG	ACID	HY	1	WAT	07/88	L	
WSCC/CA-SNV	CA	SCE	FUEL CELL 1	FC	11	UNK	07/88	P	
WSCC/CA-SNV	CA	SCE	WIND	WM	20	WND	07/88	P	

PLANNED GENERATING UNIT ADDITIONS (1984-1993)
WSCC

TABLE 15

California-Southern Nevada Power Area

NPCC
MAPP
ECAR
MAAC
MAIN
SPP
SERC
ERCOT
BRITISH COLUMBIA
ALBERTA
WASHINGTON
MONTANA
SOUTH DAKOTA
OREGON
IDAHO
WYOMING
NEVADA
UTAH
COLORADO
CALIFORNIA
ARIZONA
NEW MEXICO
TEXAS

REGION/ SUBREGION	STATE/ PROV.	UTILITY SYSTEM	UNIT NAME	UNIT TYPE	SUMMER MW CAPABILITY	FUEL TYPE	PROJECTED SERVICE DATE	CONSTRUCTION STATUS	JOINTLY OWNED
WSCC/CA-SNV	CA	PG&E	GEYSERS 22	GE	110	GST	12/88	P	
WSCC/CA-SNV	CA	PG&E	GENERIC COGENERATION	CG	50	UNK	01/89	P	
WSCC/CA-SNV	CA	PG&E	GENERIC WIND	WM	30	WND	01/89	P	
WSCC/CA-SNV	CA	PG&E	UNIDENTIFIED SMALL HYDRO	HY	10	WAT	01/89	P	
WSCC/CA-SNV	CA	SMUD	SOLAR 4	SO	20	SUN	06/89	P	
WSCC/CA-SNV	CA	SCE	GEOTHERMAL	GE	24	GST	07/89	P	
WSCC/CA-SNV	CA	SCE	LARGE COGENERATION	CG	75	UNK	07/89	P	
WSCC/CA-SNV	CA	SCE	SMALL COGENERATION	CG	15	UNK	07/89	P	
WSCC/CA-SNV	CA	SCE	SMALL HYDRO	HY	10	WAT	07/89	P	
WSCC/CA-SNV	CA	SCE	WIND	WM	20	WND	07/89	P	
WSCC/CA-SNV	CA	PG&E	GEYSERS 23	GE	110	GST	10/89	P	
WSCC/CA-SNV	CA	SCE	BIOMASS CENTRAL PLANT	IC	1	RFF	01/90	P	
WSCC/CA-SNV	CA	SMUD	CCPA 2	GE	55	GST	01/90	P	J
WSCC/CA-SNV	CA	PG&E	GENERIC COGENERATION	CG	98	UNK	01/90	P	
WSCC/CA-SNV	CA	PG&E	UNIDENTIFIED MAJOR HYDRO	HY	35	WAT	01/90	P	
WSCC/CA-SNV	CA	PG&E	UNIDENTIFIED SMALL HYDRO	HY	10	WAT	01/90	P	
WSCC/CA-SNV	CA	LDWP	N BRAWLEY 2	GE	44	ZZ	05/90	P	
WSCC/CA-SNV	CA	SCE	COOLWATER IGCC	ST	100	ZZ	07/90	U	
WSCC/CA-SNV	CA	SCE	FUEL CELLS 2	FC	22	UNK	07/90	P	
WSCC/CA-SNV	CA	SCE	GEOTHERMAL	GE	50	GST	07/90	P	
WSCC/CA-SNV	CA	SCE	LARGE COGENERATION	CG	75	UNK	07/90	P	
WSCC/CA-SNV	CA	SCE	LARGE HYDRO	HY	100	WAT	07/90	P	
WSCC/CA-SNV	CA	SCE	SMALL COGENERATION	CG	14	UNK	07/90	P	
WSCC/CA-SNV	CA	SCE	SMALL HYDRO	HY	15	WAT	07/90	P	
WSCC/CA-SNV	CA	LDWP	SMALL HYDRO DEV	HY	7	WAT	07/90	P	
WSCC/CA-SNV	CA	SCE	SOLAR	SO	45	SUN	07/90	P	
WSCC/CA-SNV	CA	SCE	WIND	WM	20	WND	07/90	P	
WSCC/CA-SNV	CA	PG&E	GEYSERS 19	GE	55	GST	12/90	P	
WSCC/CA-SNV	CA	PG&E	GEYSERS 24	GE	110	GST	12/90	P	
WSCC/CA-SNV	CA	PG&E	UNIDENTIFIED MAJOR HYDRO	HY	35	WAT	01/91	P	
WSCC/CA-SNV	CA	SMUD	UNIDENTIFIED PEAKING 1	ZZ	50	UNK	01/91	P	
WSCC/CA-SNV	CA	SMUD	UNIDENTIFIED PEAKING 2	ZZ	50	UNK	01/91	P	
WSCC/CA-SNV	CA	PG&E	UNIDENTIFIED SMALL HYDRO	HY	15	WAT	01/91	P	
WSCC/CA-SNV	CA	PG&E	SMALL HYDRO PROJ L	HY	14	WAT	03/91	P	
WSCC/CA-SNV	CA	LDWP	N BRAWLEY 3	GE	44	ZZ	05/91	P	
WSCC/CA-SNV	CA	PG&E	GENERIC COGENERATION	CG	25	UNK	06/91	P	
WSCC/CA-SNV	CA	LDWP	WHITE PINE 1	ST	750	BIT	06/91	P	J
WSCC/CA-SNV	CA	SCE	GEOTHERMAL	GE	50	GST	07/91	P	
WSCC/CA-SNV	CA	SCE	LARGE COGENERATION	CG	75	UNK	07/91	P	
WSCC/CA-SNV	CA	SCE	SMALL COGENERATION	CG	15	UNK	07/91	P	
WSCC/CA-SNV	CA	SCE	SMALL HYDRO	HY	15	WAT	07/91	P	
WSCC/CA-SNV	CA	SCE	SOLAR	SO	45	SUN	07/91	P	
WSCC/CA-SNV	CA	SCE	WIND	WM	25	WND	07/91	P	
WSCC/CA-SNV	CA	SDGE	BLYTHE DEV. 1	ZZ	125	UNK	01/92	P	
WSCC/CA-SNV	CA	PG&E	GENERIC BIOMASS	CG	50	ZZ	01/92	P	
WSCC/CA-SNV	CA	PG&E	UNIDENTIFIED MAJOR HYDRO	HY	35	WAT	01/92	P	
WSCC/CA-SNV	CA	PG&E	GENERIC COGENERATION	CG	25	UNK	06/92	P	
WSCC/CA-SNV	CA	SMUD	SOLAR 5	SO	73	SUN	06/92	P	
WSCC/CA-SNV	CA	LDWP	WHITE PINE 2	ST	750	BIT	06/92	P	J
WSCC/CA-SNV	CA	SCE	FUEL CELLS 3	FC	22	UNK	07/92	P	

CONTINUED

PLANNED GENERATING UNIT ADDITIONS (1984-1993)
WSCC

TABLE 15

NPCC
MAPP
ECAR
MAAC
MAIN
SPP
SERC
ERCOT
BRITISH COLUMBIA
ALBERTA
WASHINGTON
MONTANA
SOUTH DAKOTA
OREGON
IDAHO
WYOMING
NEVADA
UTAH
COLORADO
CALIFORNIA
ARIZONA
NEW MEXICO
TEXAS

California-Southern Nevada Power Area

REGION/ SUBREGION	STATE/ PROV.	UTILITY SYSTEM	UNIT NAME	UNIT TYPE	SUMMER MW CAPABILITY	FUEL TYPE	PROJECTED SERVICE DATE	CONSTRUCTION STATUS	JOINTLY OWNED
WSCC/CA-SNV	CA	SCE	GEOTHERMAL	GE	20	GST	07/92	P	
WSCC/CA-SNV	CA	SCE	LARGE COGENERATION	CG	55	UNK	07/92	P	
WSCC/CA-SNV	CA	SCE	SMALL COGENERATION	CG	15	UNK	07/92	P	
WSCC/CA-SNV	CA	SCE	SMALL HYDRO	HY	20	WAT	07/92	P	
WSCC/CA-SNV	CA	SCE	SOLAR	SO	45	SUN	07/92	P	
WSCC/CA-SNV	CA	SCE	WIND	WM	25	WND	07/92	P	
WSCC/CA-SNV	CA	PG&E	GENERIC COGENERATION	CG	48	UNK	01/93	P	
WSCC/CA-SNV	CA	SMUD	UNIDENTIFIED HYDRO	HY	200	WAT	01/93	P	
WSCC/CA-SNV	CA	RDNG	COTTONWOOD	HY	2	WAT	05/93	I	
WSCC/CA-SNV	CA	SCE	LARGE COGENERATION	CG	75	UNK	07/93	P	
WSCC/CA-SNV	CA	SCE	SMALL COGENERATION	CG	15	UNK	07/93	P	
WSCC/CA-SNV	CA	SCE	SMALL HYDRO	HY	20	WAT	07/93	P	
WSCC/CA-SNV	CE	SCE	SOLAR	SO	45	SUN	07/93	P	
WSCC/CA-SNV	CA	SCE	WIND	WM	25	WND	07/93	P	

WSCC—Canada

REGION/ SUBREGION	STATE/ PROV.	UTILITY SYSTEM	UNIT NAME	UNIT TYPE	SUMMER MW CAPABILITY	FUEL TYPE	PROJECTED SERVICE DATE	CONSTRUCTION STATUS	JOINTLY OWNED
WSCC-CAN.	AL	TAUC	KEEPHILLS 2	ST	377	SUB	05/84	V	
WSCC-CAN.	BC	BCHA	REVELSTOKE 3	HY	450	WAT	06/84	V	
WSCC-CAN.	BC	BCHA	REVELSTOKE 4	HY	450	WAT	11/84	V	
WSCC-CAN.	AL	TAUC	SHEERNESS 1	ST	366	SUB	01/86	U	J
WSCC-CAN.	AL	TAUC	SHEERNESS 2	ST	366	SUB	07/87	U	J
WSCC-CAN.	AL	EDMP	GENESEE 2	ST	386	SUB	06/88	U	
WSCC-CAN.	AL	EDMP	GENESEE 1	ST	386	SUB	02/89	U	
WSCC-CAN.	AL	TAUC	NEW STEAM 1	ST	360	SUB	10/91	P	
WSCC-CAN.	AL	TAUC	NEW STEAM 2	ST	360	SUB	10/92	P	
WSCC-CAN.	AL	TAUC	NEW STEAM 3	ST	360	SUB	10/93	P	

Coal Unit Additions

The coal-fired generating unit additions planned for 1984-1993 are presented for NERC in the following table. These units are listed as reported by the Regional Reliability Councils of NERC to the U.S. Department of Energy in their April 1, 1984 EP-411 Reports.

The following table shows that in the years 1984-1993, U.S. utilities are planning to add 107 new coal-fired units, down from the 129 coal-fired units they were planning last year to add during the 1983-1992 period.

The codes and conventions used throughout this table are the same as described in the introduction to Table 15.

Coal-Fired Generating Units Scheduled for Service 1984-1993

		Number of Units	Total Summer Capability (MW)	Average Unit Size (MW)
PLANNED, BUT NOT UTILITY AUTHORIZED	**U.S.**	41	19,126	466
	CAN.	4	1,360	340
REGULATORY APPROVAL PENDING	**U.S.**	7	3,937	562
	CAN.	0	0	—
APPROVAL RECEIVED, BUT NOT UNDER CONSTRUCTION	**U.S.**	4	1,275	319
	CAN.	0	0	—
UNDER CONSTRUCTION, LESS THAN 50% COMPLETE	**U.S.**	30	18,353	612
	CAN.	4	1,504	376
UNDER CONSTRUCTION, MORE THAN 50% COMPLETE	**U.S.**	25	13,581	543
	CAN.	2	583	292
TOTALS	**U.S.**	107	56,272	526
	CAN.	10	3,447	345

COAL UNIT ADDITIONS (1984-1993)
NERC

TABLE 16

REGION/ SUBREGION	STATE/ PROV.	UTILITY SYSTEM	UNIT NAME	UNIT TYPE	SUMMER MW CAPABILITY	FUEL TYPE	PROJECTED SERVICE DATE	CONSTRUCTION STATUS	JOINTLY OWNED
WSCC/RMPA	CO	PRPA	RAWHIDE 1	ST	250	BIT	04/84	V	
MAAC	MD	BCCO	BRANDON SHORES 1	ST	600	BIT	05/84	V	
WSCC/RMPA	CO	CUEA	CRAIG 3	ST	400	BIT	05/84	V	
SERC/VACAR	SC	SOCA	CROSS SITE UNIT #2	ST	500	BIT	05/84	V	
WSCC-CAN.	AL	TAUC	KEEPHILLS 2	ST	377	SUB	05/84	V	
SPP/GRP B	OK	OKGE	MUSKOGEE 6	ST	515	SUB	06/84	V	
MAPP-U.S.	ND	BEPC	ANTELOPE VALLEY 1	ST	460	LIG	07/84	V	
ECAR	MI	DECO	BELLE RIVER 1	ST	655	COL	07/84	V	J
ECAR	KY	BREC	D.B.WILSON 1	ST	400	COL	07/84	V	
ECAR	KY	KU	GHENT 4	ST	500	COL	09/84	V	
NPCC/NY	NY	NEYE	SOMERSET	ST	625	BIT	11/84	U	
NPCC/ONT	ON	ONHY	ATIKOKAN 1	ST	206	COL	12/84	V	
SERC/FLA	FL	FLPC	CRYSTAL RIVER 5	ST	697	BIT	12/84	V	
WSCC/AZ-NM	NM	PEGT	PEGS 1	ST	210	BIT	12/84	V	
ECAR	IN	AEP	ROCKPORT 1	ST	1300	COL	12/84	V	
WSCC/NWPP	UT	DGT	BONANZA 1	ST	400	BIT	01/85	V	
SPP/GRP A	AR	MSUI	INDEPENDENCE 2	ST	836	SUB	01/85	V	J
SERC/FLA	FL	SECI	SEMINOLE 2	ST	600	BIT	01/85	V	
SPP/GRP B	TX	SOEP	PIRKEY 1	ST	640	LIG	02/85	V	J
MAIN/WIUM	WI	WPL	EDGEWATER 5	ST	300	SUB	03/85	V	J
SERC/FLA	FL	TAEC	BIG BEND 4	ST	419	BIT	04/85	V	
SERC/SOU	AL	ALAP	MILLER 2	ST	666	BIT	05/85	V	
SPP/GRP B	OK	GRRD	GRDA 2	ST	520	BIT	06/85	V	
WSCC/AZ-NM	AZ	TEP	SPRINGERVILLE 1	ST	330	SUB	06/85	V	
SPP/GRP B	TX	SWPS	TOLK 2	ST	508	SUB	06/85	V	
WSCC/NWPP	NV	SPP	VALMY 2	ST	250	BIT	06/85	U	J
ECAR	MI	DECO	BELLE RIVER 2	ST	655	COL	07/85	U	
WSCC/NWPP	MT	MPC	COLSTRIP 4	ST	700	BIT	07/85	V	J
MAIN/WIUM	WI	WEP	PLEASANT PRAIRIE 2	ST	580	SUB	07/85	V	
ECAR	IN	SIGE	A.B.BROWN 2	ST	250	COL	01/86	U	
WSCC-CAN.	AL	TAUC	SHEERNESS 1	ST	366	SUB	01/86	U	J
SPP/GRP B	LA	SOEP	DOLET HILLS 1	ST	640	LIG	02/86	U	J
ERCOT	TX	HL&P	LIMESTONE 1	ST	720	LIG	03/86	U	
ECAR	IN	IP&L	PETERSBURG 4	ST	515	COL	04/86	V	
MAPP-U.S.	ND	BEPC	ANTELOPE VALLEY 2	ST	460	LIG	06/86	U	J
SPP/GRP C	MO	EMDE	ASBURY 2	ST	20	BIT	06/86	T	
ECAR	IN	NIPS	R.M.SCHAHFER 18	ST	344	COL	06/86	U	
WSCC/CA-SNV	UT	LDWP	INTERMOUNTAIN 1	ST	761	BIT	07/86	U	J
ERCOT	TX	WETU	OKLAUNION 1	ST	640*	SUB	12/86	U	J
ECAR	IN	AEP	ROCKPORT 2	ST	1300	COL	12/86	U	
SERC/SOU	GA	GEPC	SCHERER 3	ST	808	BIT	02/87	U	J
ERCOT	TX	HL&P	LIMESTONE 2	ST	720	LIG	03/87	U	
SERC/FLA	FL	JACO	ST. JOHNS 1	ST	552	BIT	04/87	U	J
MAPP-U.S.	MN	NSP	RIVERSIDE 7	ST	13	COL	05/87	P	
WSCC/AZ-NM	AZ	TEP	SPRINGERVILLE 2	ST	330	SUB	06/87	U	
ECAR	KY	LG&E	TRIMBLE COUNTY 1	ST	495	COL	06/87	U	
WSCC/CA-SNV	UT	LDWP	INTERMOUNTAIN 2	ST	761	BIT	07/87	U	J
WSCC-CAN.	AL	TAUC	SHEERNESS 2	ST	366	SUB	07/87	U	J
SERC/FLA	FL	ORLA	STANTON 1	ST	415	BIT	08/87	U	J

* 175 MW of 640 MW Oklaunion unit capacity to participants in SPP Region.

COAL UNIT ADDITIONS (1984-1993)
NERC

TABLE 16

REGIONAL/ SUBREGIONAL	STATE/ PROV.	UTILITY SYSTEM	UNIT NAME	UNIT TYPE	SUMMER MW CAPABILITY	FUEL TYPE	PROJECTED SERVICE DATE	CONSTRUCTION STATUS	JOINTLY OWNED
MAIN/WIUM	WI	WPS	COGENERATION PLANT	ST	12	COL	12/87	P	
MAPP-U.S.	MN	NSP	SHERBURNE CO 3	ST	772	SUB	01/88	L	J
ERCOT	TX	LCRA	F.P.P. 3	ST	400	LIG	06/88	T	J
WSCC-CAN.	AL	EDMP	GENESEE 2	ST	386	SUB	06/88	U	
SERC/FLA	FL	JACO	ST. JOHNS 2	ST	552	BIT	10/88	U	J
MAAC	MD	BCCO	BRANDON SHORES 2	ST	640	BIT	12/88	U	
ERCOT	TX	TUEC	FOREST GROVE 1	ST	750	LIG	01/89	U	
WSCC-CAN.	AL	EDMP	GENESEE 1	ST	386	SUB	02/89	U	
SERC/SOU	GA	GEPC	SCHERER 4	ST	808	BIT	02/89	U	J
ERCOT	TX	TUEC	TWIN OAK 1	ST	563	LIG	02/89	U	
SERC/SOU	AL	ALAP	MILLER 3	ST	666	BIT	05/89	U	
ERCOT	TX	LCRA	F.P.P. 4	ST	400	LIG	06/89	L	
ERCOT	TX	TUEC	TWIN OAK 2	ST	562	LIG	02/90	U	
ERCOT	TX	HL&P	MALAKOFF 1	ST	615	LIG	04/90	P	
WSCC/RMPA	CO	PSC	PAWNEE 2	ST	485	BIT	04/90	L	
SPP/GRP C	MO	MIPU	UNKNOWN	ST	100	BIT	05/90	P	
SPP/GRP B	TX	SWPS	SPS 6	ST	525	SUB	06/90	T	
ERCOT	TX	WETU	COLETO CREEK 2	ST	640	BIT	12/90	L	J
MAPP-U.S.	IA	IELP	GUTHERIE COUNTY 1	ST	550	COL	12/90	P	J
ERCOT	TX	TUEC	MARTIN LAKE 4	ST	750	LIG	01/91	U	
ERCOT	TX	ST&M	SAN MIGUEL 2	ST	200	LIG	01/91	P	
SERC/VACAR	NC	CAPO	MAYO 2	ST	720	COL	03/91	U	
ERCOT	TX	HL&P	MALAKOFF 2	ST	615	LIG	04/91	P	
WSCC/AZ-NM	AZ	SRP	CORONADO 3	ST	350	SUB	05/91	U	
SERC/SOU	AL	ALAP	MILLER 4	ST	666	BIT	05/91	U	
WSCC/NWPP	UT	UPLC	HUNTER 4	ST	400	BIT	06/91	P	
WSCC/AZ-NM	AZ	TEP	SPRINGERVILLE 3	ST	330	SUB	06/91	T	
SPP/GRP C	MO	ASEC	UNDETERMINED	ST	630	BIT	06/91	P	
WSCC/CA-SNV	CA	LDWP	WHITE PINE 1	ST	750	BIT	06/91	P	J
ERCOT	TX	TUEC	OTHER CAPACITY	ST	600	BIT	07/91	P	
WSCC-CAN.	AL	TAUC	NEW STEAM 1	ST	360	SUB	10/91	P	
SPP/GRP B	TX	SOEP	WALKER COUNTY A 1	ST	640*	LIG	12/91	P	J
ERCOT	TX	TUEC	SITE A	ST	650	COL	01/92	P	
SERC/FLA	FL	SECI	TAYLOR PLANT 1	ST	600	BIT	01/92	P	
SERC/VACAR	**	SOCG	UNDETERMINED	ST	300	COL	05/92	P	
SPP/GRP B	OK	OKGE	UNKNOWN	ST	500	SUB	05/92	P	
SERC/SOU	AL	ALEC	1 UNIT 5	ST	250	BIT	06/92	P	
SPP/GRP C	MO	EMDE	UNKNOWN	ST	150	COL	06/92	P	J
WSCC/CA-SNV	CA	LDWP	WHITE PINE 2	ST	750	BIT	06/92	P	J
ERCOT	TX	TUEC	OTHER CAPACITY	ST	1000	BIT	07/92	P	
ERCOT	TX	TMPP	UNDESIGNATED 1	ST	250	LIG	07/92	P	
ECAR	**	APS	COAL 1	ST	300	COL	09/92	P	
MAPP-U.S.	ND	OTP	SPIRITWOOD 1	ST	125	LIG	09/92	P	
ECAR	KY	EKPC	J.K.SMITH 1	ST	600	COL	10/92	U	
SERC/VACAR	VA	VIEP	NEW CAPACITY 1	ST	750	COL	10/92	P	
WSCC-CAN.	AL	TAUC	NEW STEAM 2	ST	360	SUB	10/92	P	
WSCC/RMPA	CO	CCS	NIXON 2	ST	350	BIT	10/92	P	
MAPP-U.S.	ND	BEPC	ANTELOPE VALLEY 3	ST	500	LIG	11/92	L	J
MAPP-CAN.	SA	SPC	FUTURE FOSSIL 1	ST	280	LIG	12/92	P	

* 274 MW of 640 MW Walker County unit capacity to participants in ERCOT Region.

** State undesignated.

COAL UNIT ADDITIONS (1984-1993)

NERC TABLE 16

REGIONAL/ SUBREGIONAL	STATE/ PROV.	UTILITY SYSTEM	UNIT NAME	UNIT TYPE	SUMMER MW CAPABILITY	FUEL TYPE	PROJECTED SERVICE DATE	CONSTRUCTION STATUS	JOINTLY OWNED
SPP/GRP [illegible]	OK	PSOK	INOLA 1	ST	640[a]	SUB	12/92	L	J
SERC/SOU	**	SAEP	NOT AVAILABLE	ST	38	BIT	**/93	X	
ERCOT	TX	TUEC	SITE A	ST	650	COL	01/93	P	
ERCOT	TX	TUEC	SITE C	ST	650	COL	01/93	P	
SPP/GRP A	LA	MSUI	WILTON 1	ST	800	COL	01/93	P	
SERC/FLA	FL	TALL	UNNAMED	ST	400	BIT	03/93	P	
ERCOT	TX	CPSA	UNDESIGNATED	ST	468	LIG	04/93	P	
WSCC/RMPA	CO	PSC	UNSITED COAL 1	ST	250	BIT	04/93	P	
MAAC	**	GPUS	COAL 1	ST	625	BIT	05/93	P	
SERC/VACAR	SC	SOCA	CROSS SITE UNIT #1	ST	500	BIT	05/93	L	
MAPP-U.S.	WI	NSP	WISCONSIN COAL 1	ST	400	SUB	05/93	P	
WSCC/AZ-NM	AZ	APS	CHOLLA 5	ST	340	SUB	06/93	P	
SPP/GRP B	TX	SWPS	SPS 7	ST	525	SUB	06/93	P	
ERCOT	TX	TUEC	OTHER CAPACITY	ST	300	BIT	07/93	P	
ECAR	KY	KU	HANCOCK CO. 1	ST	650	COL	10/93	P	
SERC/VACAR	VA	VIEP	NEW CAPACITY 2	ST	750	COL	10/93	P	
WSCC-CAN.	AL	TAUC	NEW STEAM 3	ST	360	SUB	10/93	P	
SPP/GRP A	LA	GUSU	NELSON 5	ST	540	SUB	12/93	P	
SPP/GRP B	**	CESW	UNDETERMINED	ST	640[b]	BIT	12/93	P	J

a/ 152 MW of 640 MW Inola unit capacity to participants in ERCOT Region.
b/ 283 MW of 640 MW unnamed unit capacity to participants in ERCOT Region.
** State location undesignated.
**/93 Month undetermined.

Nuclear Unit Additions

The nuclear generating unit additions planned for 1984-1993 are presented for NERC in the following table. These units are listed as reported by the Regional Reliability Councils of NERC to the U.S. Department of Energy in their April 1, 1984 EP-411 Reports.

The following table shows that in the years 1984-1993, U.S. utilities are showing plans to add 50 new nuclear units, 10 less than they were planning last year to add during the 1983-1992 period.

The codes and conventions used throughout this table are the same as described in the introduction to Table 15.

Nuclear Generating Units Scheduled for Service 1984-1993

		Number of Units	Total Summer Capability (MW)	Average Unit Size (MW)
PLANNED, BUT NOT UTILITY AUTHORIZED	U.S.	0	0	—
	CAN.	0	0	—
REGULATORY APPROVAL PENDING	U.S.	0	0	—
	CAN.	0	0	—
APPROVAL RECEIVED, BUT NOT UNDER CONSTRUCTION	U.S.	0	0	—
	CAN.	0	0	—
UNDER CONSTRUCTION, LESS THAN 50% COMPLETE	U.S.	9	10,535	1,171
	CAN.	4	3,524	881
UNDER CONSTRUCTION, MORE THAN 50% COMPLETE	U.S.	41	44,524	1,086
	CAN.	7	4,672	667
TOTALS	U.S.	50	55,059	1,101
	CAN.	11	8,196	745

NUCLEAR UNIT ADDITIONS (1984-1993)

NERC

TABLE 17

REGIONAL/ SUBREGIONAL	STATE/ PROV.	UTILITY SYSTEM	UNIT NAME	UNIT TYPE	SUMMER MW CAPABILITY	FUEL TYPE	PROJECTED SERVICE DATE	CONSTRUCTION STATUS	JOINTLY OWNED
ECAR	IN	PSI	MARBLE HILL 1	NP	1130	UR	**/**	U	
ECAR	IN	PSI	MARBLE HILL 2	NP	1130	UR	**/**	U	
ECAR	MI	CP	MIDLAND 1	NP	408	UR	**/**	V	
MAIN/CE	IL	CECO	LASALLE COUNTY 2	NB	1048	UR	04/84	V	
NPCC/ONT	ON	ONHY	PICKERING 6	CD	516	UR	04/84	V	
WSCC/CA-SNV	CA	SCE	SAN ONOFRE 3	NP	1100	UR	04/84	V	J
NPCC/ONT	ON	ONHY	BRUCE 6	CD	781	UR	06/84	V	
WSCC/CA-SNV	CA	PG&E	DIABLO CANYON 1	NP	1086	UR	06/84	V	
NPCC/ONT	ON	ONHY	BRUCE 5	CD	781	UR	09/84	V	
SPP/GRP A	MS	MSUI	GRAND GULF 1	NB	1250*	UR	09/84	V	J
SERC/TVA	TN	TEVA	WATTS BAR 1	NP	1170	UR	11/84	V	
ECAR	MI	DECO	ENRICO FERMI 2	NB	1093	UR	12/84	V	J
WSCC/AZ-NM	AZ	APS	PALO VERDE 1	NP	1270	UR	12/84	V	J
NPCC/ONT	ON	ONHY	PICKERING 7	CD	516	UR	12/84	V	
MAAC	PA	PLCO	SUSQUEHANNA 2	NB	1050	UR	12/84	V	J
SPP/GRP A	LA	MSUI	WATERFORD 3	NP	1104	UR	12/84	V	
MAIN/CE	IL	CECO	BYRON 1	NP	1120	UR	01/85	V	
MAIN/E MO	MO	UE	CALLAWAY 1	NP	1120	UR	01/85	V	
ERCOT	TX	TUEC	COMANCHE PEAK 1	NP	1150	UR	01/85	V	J
WSCC/CA-SNV	CA	PG&E	DIABLO CANYON 2	NP	1119	UR	04/85	V	
MAAC	PA	PECO	LIMERICK 1	NB	1055	UR	04/85	V	
SPP/GRP C	KS	KAGF	WOLF CREEK 1	NP	1150	UR	04/85	V	J
ECAR	OH	CAPC	PERRY 1	NB	1179	UR	05/85	V	J
SERC/VACAR	SC	DUPC	CATAWBA 1	NP	1145	UR	06/85	V	
NPCC/ONT	ON	ONHY	PICKERING 8	CD	516	UR	07/85	V	
NPCC/NY	NY	LOIL	SHOREHAM	NB	809	UR	07/85	V	
WSCC/AZ-NM	AZ	APS	PALO VERDE 2	NP	1270	UR	09/85	V	J
SPP/GRP A	LA	GUSU	RIVER BEND 1	NB	940	UR	12/85	V	J
SERC/VACAR	NC	CAPO	HARRIS 1	NP	900	UR	03/86	V	
MAIN/CE	IL	CECO	BRAIDWOOD 1	NP	1090	UR	04/86	V	
MAIN/CE	IL	CECO	BYRON 2	NP	1120	UR	04/86	V	
ECAR	PA	CAPC	BEAVER VALLEY 2	NP	820	UR	05/86	V	J

/ Date indeterminate.

* 125 MW of 1250 MW Grand Gulf unit capacity to participant in Southern Subregion of SERC.

NUCLEAR UNIT ADDITIONS (1984-1993)
NERC

TABLE 17

REGIONAL/ SUBREGIONAL	STATE/ PROV.	UTILITY SYSTEM	UNIT NAME	UNIT TYPE	SUMMER MW CAPABILITY	FUEL TYPE	PROJECTED SERVICE DATE	CONSTRUCTION STATUS	JOINTLY OWNED
NPCC/NE	CT	NOEU	MILLSTONE 3	NP	1150	UR	05/86	V	
NPCC/ONT	ON	ONHY	BRUCE 7	CD	781	UR	07/86	V	
ERCOT	TX	TUEC	COMANCHE PEAK 2	NP	1150	UR	07/86	V	J
ECAR	MI	CP	MIDLAND 2	NP	786	UR	07/86	V	
NPCC/NE	NH	PSNH	SEABROOK 1	NP	1150	UR	07/86	V	
SERC/TVA	TN	TEVA	WATTS BAR 2	NP	1170	UR	10/86	V	
MAIN/SCILL	IL	IP	CLINTON 1	NB	950	UR	11/86	V	J
NPCC/NY	NY	NMPC	NINE MILE POINT 2	NP	1080	UR	11/86	V	J
MAAC	NJ	PSCO	HOPE CREEK NO. 1	NB	1014	UR	12/86	V	J
WSCC/AZ-NM	AZ	APS	PALO VERDE 3	NP	1270	UR	12/86	U	J
NPCC/ONT	ON	ONHY	BRUCE 8	CD	781	UR	01/87	V	
SERC/SOU	GA	GEPC	VOGTLE 1	NP	1150	UR	03/87	U	J
MAIN/CE	IL	CECO	BRAIDWOOD 2	NP	1090	UR	04/87	V	
SERC/VACAR	SC	DUPC	CATAWBA 2	NP	1145	UR	06/87	V	
ERCOT	TX	HL&P	SOUTH TEXAS PROJECT 1	NP	1250	UR	06/87	V	J
NPCC/ONT	ON	ONHY	DARLINGTON 2	CD	881	UR	05/88	U	
ECAR	OH	CAPC	PERRY 2	NB	1179	UR	05/88	V	J
SERC/SOU	GA	GEPC	VOGTLE 2	NP	1150	UR	09/88	U	J
NPCC/ONT	ON	ONHY	DARLINGTON 1	CD	881	UR	02/89	U	
SERC/TVA	AL	TEVA	BELLEFONTE 1	NP	1177	UR	04/89	V	
ERCOT	TX	HP&L	SOUTH TEXAS PROJECT 2	NP	1250	UR	06/89	U	J
WSCC/NWPP	WA	BPA	WNP 3	NP	1240	UR	12/89	V	J
SPP/GRP A	MS	MSUI	GRAND GULF 2	NB	1250	UR	04/90	U	J
MAAC	PA	PECO	LIMERICK 2	NB	1055	UR	04/90	U	
NPCC/NE	NH	PSNH	SEABROOK 2	NP	1150	UR	12/90	U	
SERC/TVA	AL	TEVA	BELLEFONTE 2	NP	1177	UR	04/91	V	
WSCC/NWPP	WA	BPA	WNP 1	NP	1250	UR	06/91	V	J
NPCC/ONT	ON	ONHY	DARLINGTON 3	CD	881	UR	09/91	U	
NPCC/ONT	ON	ONHY	DARLINGTON 4	CD	881	UR	08/92	U	

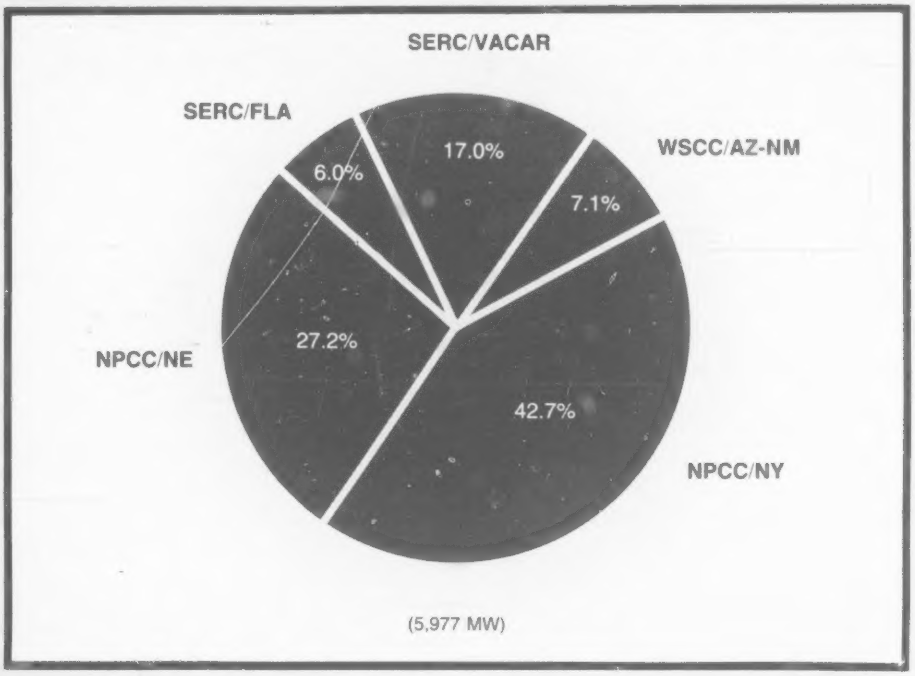
Planned Generating Unit Conversions

Utilities are planning to convert 30 oil-burning generating units to coal-firing over the next ten years. These planned conversions, as listed in the following table, represent a total of 5,977 MW in three NERC Regions.

The data indicate that 42.7% of all capacity planned for conversion is located in New York State alone. New England follows with 27.2% of the total. The NPCC Region alone accounts for over two-thirds of total planned conversions because most of those units targeted for fuel change in this Region were designed to burn coal originally. NPCC is showing 4,178 MW scheduled for conversion.

Canada is not reporting any plans for conversion of units to coal-firing.

NERC 1984-1993 Oil-to-Coal Conversions



PLANNED GENERATING UNIT CONVERSIONS (1984-1993)
NERC

TABLE 18

REGION/ SUBREGION	STATE/ PROV.	UTILITY SYSTEM	UNIT NAME	FORMER FUEL	SUMMER CAPABILITY BEFORE CONVERSION	REMOVAL DATE	RETURN DATE	SUMMER CAPABILITY AFTER CONVERSION
NPCC/NY	NY	ORRU	LOVETT 5	F06	202	08/85	10/85	196
NPCC/NY	NY	ORRU	LOVETT 4	F06	197	10/85	01/86	191
NPCC/NY	NY	CEHG	DANSKAMMER 3	F06	120	05/86	09/86	133
NPCC/NY	NY	COEN	RAVENSWOOD 3	F06	928	10/86	11/86	928
NPCC/NY	NY	COEN	ARTHUR KILL 3	F06	491	09/87	10/87	491
NPCC/NY	NY	COEN	ARTHUR KILL 2	F06	335	01/88	03/88	335
NPCC/NY	NY	CEHG	DANSKAMMER 4	F06	219	04/88	09/88	230
NPCC/NY	NY	ORRU	LOVETT 3	F06	63	10/93	01/94	63
NPCC/NE	MA	EUAS	SOMERSET 5	F06	70	N.A.	**/84	69
NPCC/NE	MA	EUAS	SOMERSET 6	F06	119	N.A.	**/84	117
NPCC/NE	NH	PSNH	SCHILLER 4	F06	49	N.A.	**/84	45
NPCC/NE	NH	PSNH	SCHILLER 5	F06	53	N.A.	**/84	48
NPCC/NE	NH	PSNH	SCHILLER 6	F06	53	N.A.	**/84	49
NPCC/NE	CT	UNIC	BRIDGEPORT HARBOR 3	F06	410	N.A.	**/85	250
NPCC/NE	MA	BOEC	NEW BOSTON 1	F06	380	N.A.	**/87	374
NPCC/NE	MA	BOEC	NEW BOSTON 2	F06	380	N.A.	**/88	374
NPCC/NE	ME	CEMP	MASON 3	F06	36	N.A.	**/91	36
NPCC/NE	ME	CEMP	MASON 4	F06	36	N.A.	**/91	36
NPCC/NE	ME	CEMP	MASON 5	F06	37	N.A.	**/91	36
SERC/FLA	FL	TAEC	GANNON 1	F06	103	09/85	03/86	103
SERC/FLA	FL	TAEC	GANNON 2	F06	108	02/85	08/85	108
SERC/FLA	FL	TAEC	GANNON 3	F06	150	03/84	07/84	150
SERC/VACAR	SC	SOCG	A.M.WILLIAMS 1	F06	580	09/83	06/84	580
SERC/VACAR	VA	VIEP	CHESTERFIELD 3	F06	100	03/84	06/84	100
SERC/VACAR	VA	VIEP	YORKTOWN 1	F06	166	04/84	07/84	166
SERC/VACAR	VA	VIEP	YORKTOWN 2	F06	170	10/84	01/85	170
WSCC/AZ-NM	AZ	TEP	IRVINGTON 4	F06	156	10/85	05/86	99
WSCC/AZ-NM	AZ	TEP	IRVINGTON 3	F06	104	10/86	05/87	77
WSCC/AZ-NM	AZ	TEP	IRVINGTON 2	F06	81	10/87	05/88	41
WSCC/AZ-NM	AZ	TEP	IRVINGTON 1	F06	81	10/87	05/88	41
					5977			5636

N.A./ Date not available.
**/ Month not available.

Planned Generating Unit Retirements

The generating unit retirements scheduled for 1984-1993 are presented for the NERC Regions and Subregions in the following tables. These units are listed as reported by the Regional Reliability Councils of NERC to the U.S. Department of Energy in their April 1, 1984 EP-411 Reports.

The principal fuel types of the generating capacity scheduled to be taken out of service during the next ten years are oil and gas. The following tables show that in the years 1984-1993, U.S. utilities are planning to retire 178 oil-fired units and 134 gas-fired units, representing 4,780 MW and 8,095 MW of capacity, respectively. These two fuel types together account for 88.9% of the total number of units planned for retirement and for 85.6% of the total MW capacity for retirement.

Most projected retirement dates, however, are based on an average unit life. Economic and physical evaluations may result in later retirement dates than shown for many of these units.

The codes used throughout these tables for unit/fuel type are listed above. State locations of units are denoted by their two-character federal postal codes. Utility system abbreviations follow the conventions used in the Regional EP-411 Reports.

Symbol Codes for the Following Regional Tables:

UNIT TYPE

ST	STEAM TURBINE-NON NUCLEAR
NB	STEAM-BWR NUCLEAR
NP	STEAM-PWR NUCLEAR
NH	STEAM-HTGR NUCLEAR
CD	CANDU
IC	INTERNAL COMBUSTION
GT	COMBUSTION TURBINE
HY	CONVENTIONAL HYDRO
PS	PUMPED STORAGE HYDRO
CW	COMBINED CYCLE-STEAM PORTION-WASTE HEAT ONLY
CA	COMBINED CYCLE-STEAM PORTION-AUXILIARY FIRED
CT	COMBINED CYCLE-COMBUSTION TURBINE PORTION
CG	COGENERATION
JE	JET ENGINE
FC	FUEL CELL
SO	SOLAR
WM	WIND POWER
GE	GEOTHERMAL
ZZ	NONE OF THE ABOVE
UN	UNKNOWN AT THIS TIME

FUEL TYPE

WH	WASTE HEAT
COL	COAL - GENERAL
BIT	BITUMINOUS COAL
SUB	SUB-BITUMINOUS COAL
ANT	ANTHRACITE COAL
LIG	LIGNITE COAL
PC	PETROLEUM COKE
LNG	LIQUIFIED NATURAL GAS
MTH	METHANOL
GAS	GAS - GENERAL
NG	NATURAL GAS
RG	REFINERY GAS
BFG	BLAST FURNACE GAS
COG	COKE OVEN GAS
UNK	UNKNOWN AT THIS TIME
GST	GEOTHERMAL STEAM
MUL	MULTI-FUELED
REF	REFUSE - SOLID WASTE
OIL	OIL - GENERAL
FO1	NO.1 FUEL OIL
FO2	NO.2 FUEL OIL
FO4	NO.4 FUEL OIL
FO5	NO.5 FUEL OIL
FO6	NO.6 FUEL OIL
CRU	CRUDE OIL
TOP	TOP CRUDE OIL
JF	JET FUEL
KER	KEROSENE
LPG	LIQUID PROPANE GAS
RRO	RE-REFINED MOTOR OIL
SNG	SYNTHETIC NATURAL GAS
UR	URANIUM
PL	PLUTONIUM
WAT	WATER
TH	THORIUM
SUN	SUN
WND	WIND
G/C	GAS AND/OR COAL
O/C	OIL AND/OR COAL
W/G	WOOD AND/OR GAS
W/O	WOOD AND/OR OIL
WOD	WOOD
WD	WOOD AND WOOD WASTE
PEA	PEAT
ZZ	NONE OF THE ABOVE

Generating Units Scheduled for Retirement 1984-1993

Fuel Type		Number of Units	Total Summer Capability (MW)	% of Total Capability (MW)
OTHER	U.S.	3	64	0.4
	CAN.	0	0	0.0
OIL	U.S.	178	4,780	31.8
	CAN.	2	3	1.4
GAS	U.S.	134	8,095	53.8
	CAN.	10	149	69.6
COAL	U.S.	31	1,221	8.1
	CAN.	3	62	29.0
NUCLEAR	U.S.	2*	840	5.6
	CAN.	0	0	0.0
HYDRO	U.S.	3	51	0.3
	CAN.	0	0	0.0
TOTAL	U.S.	351	15,051	100.0
	CAN.	15	214	100.0

*WSCC/NWPP: BPA's Hanford 1 & 2.

WSCC
MAPP
NPCC
MAAC
SPP
SERC
ERCOT
MICHIGAN
INDIANA
OHIO
PENNSYLVANIA
MD
WEST VIRGINIA
KENTUCKY
VIRGINIA

PLANNED GENERATING UNIT RETIREMENTS (1984-1993)

ECAR

TABLE 19

REGION/ SUBREGION	STATE/ PROV.	UTILITY SYSTEM	UNIT NAME	UNIT TYPE	SUMMER MW CAPABILITY	FUEL TYPE	PROJECTED SERVICE DATE	CONSTRUCTION STATUS	JOINTLY OWNED
ECAR	IN	IP&L	STOUT 1	ST	33	FO2	04/86	R	
ECAR	IN	IP&L	STOUT 2	ST	33	FO2	04/86	R	
ECAR	IN	SIGE	OHIO RIVER 4	ST	20	FO2	12/87	R	
ECAR	IN	SIGE	OHIO RIVER 5	ST	20	FO2	12/87	R	
ECAR	IN	SIGE	OHIO RIVER 6	ST	20	FO2	12/87	R	
ECAR	IN	SIGE	OHIO RIVER 7	ST	20	FO2	12/87	R	
ECAR	OH	BMLW	BRYAN 2	IC	3	FO2	04/89	R	
ECAR	OH	CG&E	MIAMI FORT GT 1	GT	48	FO2	10/90	R	
ECAR	OH	CG&E	MIAMI FORT GT 2	GT	48	FO2	10/90	R	
ECAR	MI	DECO	DELRAY 14*	ST	80	FO6	12/90	R	
ECAR	MI	DECO	DELRAY 15*	ST	80	FO6	12/90	R	
ECAR	MI	CP	COBB 1	ST	60	COL	01/92	R	
ECAR	MI	CP	COBB 2	ST	60	COL	01/92	R	
ECAR	MI	CP	COBB 3	ST	60	COL	01/92	R	
ECAR	OH	CG&E	MIAMI FORT GT 3	GT	14	FO2	10/92	R	
ECAR	OH	CG&E	MIAMI FORT GT 4	GT	14	FO2	10/92	R	
ECAR	OH	CG&E	MIAMI FORT GT 5	GT	14	FO2	10/92	R	
ECAR	OH	CG&E	MIAMI FORT GT 6	GT	15	FO2	10/92	R	
ECAR	OH	CG&E	MIAMI FORT 5	ST	80	COL	12/92	R	
ECAR	OH	CG&E	DICKS CREEK GT 3	GT	17	NG	10/93	R	
ECAR	OH	CG&E	DICKS CREEK GT 4	GT	18	FO2	10/93	R	
ECAR	OH	CG&E	DICKS CREEK GT 5	GT	18	FO2	10/93	R	

* Presently in economy reserve.

PLANNED GENERATING UNIT RETIREMENTS (1984-1993)
ERCOT

TABLE 19

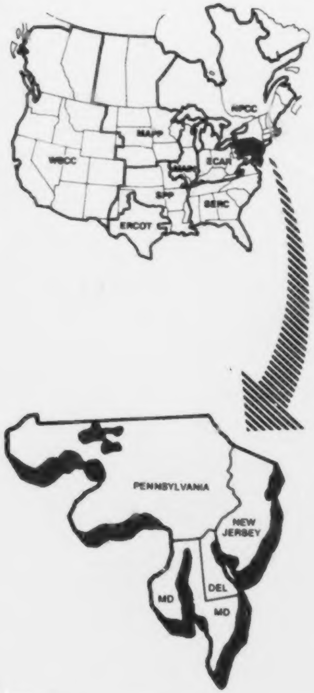
NPCC
MAPP
WSCC
MAIN
ECAR
MAAC
SPP
SERC
TEXAS

REGION SUBREGION	STATE PROV	UTILITY SYSTEM	UNIT NAME	UNIT TYPE	SUMMER MW CAPABILITY	FUEL TYPE	PROJECTED SERVICE DATE	CONSTRUCTION STATUS	JOINTLY OWNED
ERCOT	TX	TUEC	COMMERCE DIESEL 1	IC	1	OIL	12/84	R	
ERCOT	TX	TUEC	COMMERCE DIESEL 2	IC	1	OIL	12/84	R	
ERCOT	TX	TUEC	COMMERCE DIESEL 3	IC	1	OIL	12/84	R	
ERCOT	TX	TUEC	COMMERCE DIESEL 4	IC	1	OIL	12/84	R	
ERCOT	TX	TUEC	COMMERCE DIESEL 5	IC	1	OIL	12/84	R	
ERCOT	TX	TMPP	C.E.NEWMANN 1	ST	9	NG	07/85	R	
ERCOT	TX	TMPP	C.E.NEWMANN 2	ST	9	NG	07/85	R	
ERCOT	TX	AUST	SEAHOLM 5	ST	20	NG	04/88	R	
ERCOT	TX	AUST	SEAHOLM 6	ST	20	NG	04/88	R	
ERCOT	TX	AUST	SEAHOLM 7	ST	20	NG	04/88	R	
ERCOT	TX	AUST	SEAHOLM 8	ST	20	NG	04/88	R	
ERCOT	TX	TUEC	DALLAS 3	ST	75	NG	12/88	R	
ERCOT	TX	TUEC	DALLAS 9	ST	70	NG	12/88	R	
ERCOT	TX	HL&P	DEEPWATER LS	ST	101	NG	05/89	R	
ERCOT	TX	TUEC	MOUNTAIN CREEK 6	ST	115	NG	12/89	R	
ERCOT	TX	AUST	SEAHOLM 9	ST	40	NG	12/89	R	
ERCOT	TX	HL&P	H.O. CLARKE 1	ST	43	NG	05/90	R	
ERCOT	TX	HL&P	H.O. CLARKE 2	ST	43	NG	05/90	R	
ERCOT	TX	TUEC	HANDLEY 1	ST	45	NG	12/90	R	
ERCOT	TX	TUEC	HANDLEY 2	ST	80	NG	12/90	R	
ERCOT	TX	AUST	HOLLY 1	ST	100	NG	12/90	R	
ERCOT	TX	TUEC	MORGAN CREEK 2	ST	22	NG	12/90	R	
ERCOT	TX	TUEC	MORGAN CREEK 3	ST	44	NG	12/90	R	
ERCOT	TX	TUEC	PARKDALE 2	ST	115	NG	12/90	R	
ERCOT	TX	TUEC	PARKDALE 3	ST	125	NG	12/90	R	
ERCOT	TX	TUEC	COLLIN 1	ST	153	NG	12/91	R	
ERCOT	TX	TUEC	LAKE CREEK 1	ST	87	NG	12/91	R	
ERCOT	TX	TUEC	MORGAN CREEK 4	ST	70	NG	12/91	R	
ERCOT	TX	TUEC	NORTH MAIN 4	ST	80	NG	12/91	R	
ERCOT	TX	TUEC	PARKDALE 1	ST	87	NG	12/91	R	
ERCOT	TX	TUEC	PERMIAN BASIN 5	ST	115	NG	12/91	R	
ERCOT	TX	TUEC	RIVER CREST 1	ST	110	NG	12/91	R	
ERCOT	TX	TUEC	TRINIDAD 5	ST	70	NG	12/91	R	
ERCOT	TX	WETU	ABILENE 3	ST	8	NG	12/92	R	
ERCOT	TX	WETU	ABILENE 4	ST	18	NG	12/92	R	
ERCOT	TX	WETU	CONCHO 3	ST	15	NG	12/92	R	
ERCOT	TX	TUEC	EAGLE MOUNTAIN 2	ST	175	NG	12/92	R	
ERCOT	TX	WETU	LAKE PAULINE 1	ST	19	NG	12/92	R	
ERCOT	TX	TUEC	MORGAN CREEK 5	ST	175	NG	12/92	R	
ERCOT	TX	TUEC	MOUNTAIN CREEK 7	ST	125	NG	12/92	R	
ERCOT	TX	TUEC	STRYKER 1	ST	175	NG	12/92	R	
ERCOT	TX	TUEC	GRAHAM 1	ST	240	NG	12/93	R	
ERCOT	TX	TUEC	LAKE CREEK 2	ST	230	NG	12/93	R	
ERCOT	TX	TUEC	NORTH LAKE 1	ST	175	NG	12/93	R	
ERCOT	TX	TUEC	VALLEY 1	ST	175	NG	12/93	R	
ERCOT	TX	CP&L	VICTORIA 3	ST	38	NG	12/93	R	

CONTINUED

PLANNED GENERATING UNIT RETIREMENTS (1984-1993)
MAAC

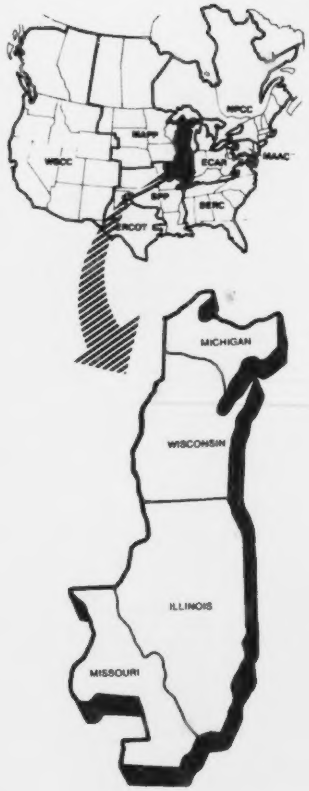
TABLE 19



REGION/ SUBREGION	STATE/ PROV.	UTILITY SYSTEM	UNIT NAME	UNIT TYPE	SUMMER MW CAPABILITY	FUEL TYPE	PROJECTED SERVICE DATE	CONSTRUCTION STATUS	JOINTLY OWNED
MAAC	MD	BCCO	WESTPORT 1	ST	19	FO6	05/84	R	
MAAC	MD	BCCO	WESTPORT 13	ST	16	FO6	05/84	R	
MAAC	MD	BCCO	WESTPORT 14	ST	16	FO6	05/84	R	
MAAC	PA	PECO	PLYMOUTH MEETING 15	GT	29	FO2	05/85	R	
MAAC	PA	PECO	PLYMOUTH MEETING 9	GT	29	FO2	05/85	R	
MAAC	PA	PECO	RICHMOND 21	GT	30	FO2	05/85	R	
MAAC	PA	PECO	RICHMOND 22	GT	30	FO2	05/85	R	
MAAC	PA	PECO	RICHMOND 31	GT	30	FO2	05/85	R	
MAAC	PA	PECO	RICHMOND 32	GT	30	FO2	05/85	R	
MAAC	PA	PECO	RICHMOND 41	GT	20	FO2	05/85	R	
MAAC	PA	PECO	RICHMOND 42	GT	20	FO2	05/85	R	
MAAC	PA	PECO	RICHMOND 43	GT	20	FO2	05/85	R	
MAAC	PA	PECO	RICHMOND 44	GT	20	FO2	05/85	R	
MAAC	PA	PECO	RICHMOND 51	GT	30	FO2	05/85	R	
MAAC	PA	PECO	RICHMOND 52	GT	30	FO2	05/85	R	
MAAC	PA	PECO	RICHMOND 61	GT	30	FO2	05/85	R	
MAAC	PA	PECO	RICHMOND 62	GT	30	FO2	05/85	R	
MAAC	PA	PECO	RICHMOND 71	GT	20	FO2	05/85	R	
MAAC	PA	PECO	RICHMOND 72	GT	20	FO2	05/85	R	
MAAC	PA	PECO	RICHMOND 73	GT	20	FO2	05/85	R	
MAAC	PA	PECO	RICHMOND 74	GT	20	FO2	05/85	R	
MAAC	PA	PECO	RICHMOND 9	ST	166	FO2	05/85	R	
MAAC	PA	PECO	SOUTHWARK 1	ST	163	FO6	12/85	R	
MAAC	PA	PECO	SOUTHWARK 2	ST	173	FO6	12/85	R	
MAAC	PA	PECO	SOUTHWARK D	IC	3	FO2	12/85	R	
MAAC	DE	DPLC	DELAWARE CITY 1	ST	27	ZZ	11/86	R	
MAAC	DE	DPLC	DELAWARE CITY 2	ST	27	ZZ	11/86	R	
MAAC	DE	DPLC	DELAWARE CITY 3	ST	40	FO6	11/86	R	
MAAC	MD	BCCO	WESTPORT 3	ST	58	FO6	01/87	R	
MAAC	MD	DPLC	EASTON 3	IC	1	FO2	05/87	R	
MAAC	MD	DPLC	EASTON 4	IC	1	FO2	05/87	R	
MAAC	MD	DPLC	EASTON 5	IC	1	FO2	05/87	R	
MAAC	PA	PECO	DELAWARE 7	ST	126	FO6	12/88	R	
MAAC	PA	PECO	DELAWARE 8	ST	124	FO6	12/88	R	
MAAC	PA	PECO	DELAWARE D	IC	3	FO2	12/88	R	
MAAC	PA	PECO	SCHUYLKILL 3	ST	12	FO6	12/88	R	
MAAC	DE	DPLC	EDGE MOOR 10	GT	13	FO2	01/90	R	
MAAC	DE	DPLC	MADISON STREET 1	GT	11	FO2	01/90	R	
MAAC	DE	DPLC	WEST 1	GT	13	FO2	01/90	R	
MAAC	MD	DPLC	EASTON 6	IC	1	FO2	05/90	R	
MAAC	PA	PECO	CROMBY 2	ST	201	FO6	12/90	R	
MAAC	DE	DPLC	DELAWARE CITY 10	GT	14	FO2	01/92	R	
MAAC	DE	DPLC	INDIAN RIVER 10	GT	14	FO2	01/92	R	
MAAC	MD	DPLC	VIENNA 10	GT	14	FO2	01/92	R	
MAAC	MD	BCCO	WESTPORT NO. 4	ST	68	FO6	01/92	R	
MAAC	PA	PECO	SCHUYLKILL 1	ST	166	FO6	12/93	R	
MAAC	PA	PECO	SCHUYLKILL D	IC	3	FO2	12/93	R	

PLANNED GENERATING UNIT RETIREMENTS (1984-1993)
MAIN

TABLE 19



Commonwealth Edison Group has not reported any planned generating unit retirements.

East Missouri Group

REGION/ SUBREGION	STATE/ PROV.	UTILITY SYSTEM	UNIT NAME	UNIT TYPE	SUMMER MW CAPABILITY	FUEL TYPE	PROJECTED SERVICE DATE	CONSTRUCTION STATUS	JOINTLY OWNED
MAIN/E MO	MO	UE	ASHLEY	ST	64	FO6	09/84	R	

South Central Illinois Group

REGION/ SUBREGION	STATE/ PROV.	UTILITY SYSTEM	UNIT NAME	UNIT TYPE	SUMMER MW CAPABILITY	FUEL TYPE	PROJECTED SERVICE DATE	CONSTRUCTION STATUS	JOINTLY OWNED
MAIN/SCILL	IL	CIPS	MEREDOSIA 1	ST	63	COL	01/89	R	
MAIN/SCILL	IL	CIL	R. S. WALLACE 6	ST	40	COL	11/89	R	
MAIN/SCILL	IL	CIL	R. S. WALLACE 7	ST	95	COL	11/89	R	
MAIN/SCILL	IL	CIPS	MEREDOSIA 2	ST	63	COL	01/90	R	
MAIN/SCILL	IL	CIPS	GRAND TOWER 3	ST	75	COL	01/92	R	

Wisconsin-Upper Michigan Group

REGION/ SUBREGION	STATE/ PROV.	UTILITY SYSTEM	UNIT NAME	UNIT TYPE	SUMMER MW CAPABILITY	FUEL TYPE	PROJECTED SERVICE DATE	CONSTRUCTION STATUS	JOINTLY OWNED
MAIN/WIUM	WI	WPL	EDGEWATER 2	ST	33	BIT	09/84	R	
MAIN/WIUM	WI	WEP	COMMERCE	ST	31	NG	01/90	R	
MAIN/WIUM	WI	WEP	PORT WASHINGTON 1	ST	49	BIT	01/92	R	
MAIN/WIUM	WI	WEP	PORT WASHINGTON 2	ST	76	BIT	01/92	R	

PLANNED GENERATING UNIT RETIREMENTS (1984-1993)
MAPP

TABLE 19

WSCC
NPCC
ECAR
MAAC
MAIN
SPP
SERC
ERCOT
MANITOBA
SASKAT-CHEWAN
NORTH DAKOTA
MIN
MICHIGAN
MONTANA
WISCONSIN
SOUTH DAKOTA
NEBRASKA
IOWA

MAPP–U.S.

REGION/ SUBREGION	STATE/ PROV.	UTILITY SYSTEM	UNIT NAME	UNIT TYPE	SUMMER MW CAPABILITY	FUEL TYPE	PROJECTED SERVICE DATE	CONSTRUCTION STATUS	JOINTLY OWNED
MAPP-U.S.	NE	LES	K STREET 3	ST	20	FO6	01/84	R	
MAPP-U.S.	MN	SMMP	NEW PRAGUE 1	IC	1	FO2	01/84	R	
MAPP-U.S.	MN	SMMP	FAIRMONT 4	ST	5	FO6	01/85	R	
MAPP-U.S.	MN	SMMP	OWATONNA DOWNTOWN 4	ST	5	FO6	01/85	R	
MAPP-U.S.	MN	SMMP	PRESTON 4	IC	1	FO2	01/85	R	
MAPP-U.S.	MN	SMMP	ROCHESTER SILVER LK 1	ST	9	BIT	01/85	R	
MAPP-U.S.	MN	SMMP	SPRING WALLEY 1	IC	1	FO2	01/85	R	
MAPP-U.S.	MN	SMMP	WELLS 3	IC	1	FO2	01/86	R	
MAPP-U.S.	MN	OTP	HOOT LAKE 1	ST	8	LIG	05/86	R	
MAPP-U.S.	ND	MDU	KNIFE RIVER 1	ST	3	LIG	06/86	R	
MAPP-U.S.	ND	MDU	KNIFE RIVER 2	ST	3	LIG	06/86	R	
MAPP-U.S.	MN	SMMP	AUSTIN DOWNTOWN 1	ST	5	FO6	11/87	R	
MAPP-U.S.	MN	SMMP	AUSTIN DOWNTOWN 3	ST	9	FO6	11/87	R	
MAPP-U.S.	MN	SMMP	AUSTIN DOWNTOWN 4	ST	12	FO6	11/87	R	
MAPP-U.S.	MN	SMMP	AUSTIN DOWNTOWN 5	GT	5	FO1	11/87	R	
MAPP-U.S.	MN	SMMP	BLOOMING PRAIRIE 1	IC	1	FO2	11/87	R	
MAPP-U.S.	MN	SMMP	BLOOMING PRAIRIE 2	IC	1	FO2	11/87	R	
MAPP-U.S.	MN	SMMP	FAIRMONT 6	IC	6	FO2	11/87	R	
MAPP-U.S.	MN	SMMP	FAIRMONT 7	IC	6	FO2	11/87	R	
MAPP-U.S.	MN	SMMP	NEW PRAGUE 2	IC	4	FO2	11/87	R	
MAPP-U.S.	MN	SMMP	NEW PRAGUE 3	IC	3	FO2	11/87	R	
MAPP-U.S.	MN	SMMP	NEW PRAGUE 4	IC	4	FO2	11/87	R	
MAPP-U.S.	MN	SMMP	NEW PRAGUE 6	IC	6	FO2	11/87	R	
MAPP-U.S.	MN	SMMP	OWATONNA DOWNTOWN 5	ST	8	FO6	11/87	R	
MAPP-U.S.	MN	SMMP	OWATONNA DOWNTOWN 6	ST	19	FO6	11/87	R	
MAPP-U.S.	MN	SMMP	OWATONNA WEST SUB 7	GT	17	FO2	11/87	R	
MAPP-U.S.	MN	SMMP	PRESTON 5	IC	1	FO2	11/87	R	
MAPP-U.S.	MN	SMMP	PRESTON 6	IC	2	FO2	11/87	R	
MAPP-U.S.	MN	SMMP	REDWOOD FALLS DWNTWN 2	IC	6	FO2	11/87	R	
MAPP-U.S.	MN	SMMP	REDWOOD FALLS SE 1	IC	2	FO2	11/87	R	
MAPP-U.S.	MN	SMMP	ROCHESTER CASCADE CR 7	GT	28	FO2	11/87	R	
MAPP-U.S.	MN	SMMP	SPRING VALLEY 2	IC	1	FO2	11/87	R	
MAPP-U.S.	MN	SMMP	SPRING VALLEY 3	IC	2	FO2	11/87	R	
MAPP-U.S.	MN	SMMP	SPRING VALLEY 4	IC	4	FO2	11/87	R	

PLANNED GENERATING UNIT RETIREMENTS (1984-1993)
MAPP

TABLE 19

WSCC
NPCC
MAIN
ECAR
MAAC
SPP
SERC
ERCOT
MANITOBA
SASKAT-CHEWAN
MICHIGAN
MONTANA
NORTH DAKOTA
MINN
WISCONSIN
SOUTH DAKOTA
IOWA
NEBRASKA

MAPP–U.S.

REGION SUBREGION	STATE PRCV	UTILITY SYSTEM	UNIT NAME	UNIT TYPE	SUMMER MW CAPABILITY	FUEL TYPE	PROJECTED SERVICE DATE	CONSTRUCTION STATUS	JOINTLY OWNED
MAPP-U.S.	MN	SMMP	WELLS 1	IC	1	FO2	11/87	R	
MAPP-U.S.	MN	SMMP	WELLS 2	IC	2	FO2	11/87	R	
MAPP-U.S.	MN	SMMP	WELLS 4	IC	2	FO2	11/87	R	
MAPP-U.S.	MN	SMMP	WELLS 5	IC	2	FO2	11/87	R	
MAPP-U.S.	MN	SMMP	ROCHESTER SILVER LK 2	ST	14	BIT	01/89	R	
MAPP-U.S.	ND	MDU	DAKOTA 3	ST	8	LIG	11/89	R	
MAPP-U.S.	ND	MDU	ELLENDALE 1	IC	1	FO2	11/89	R	
MAPP-U.S.	ND	MDU	ELLENDALE 2	IC	1	FO2	11/89	R	
MAPP-U.S.	MT	MDU	GLENDIVE 1	ST	3	NG	11/89	R	
MAPP-U.S.	MT	MDU	GLENDIVE 2	ST	3	NG	11/89	R	
MAPP-U.S.	SD	MDU	MOBRIDGE 1	IC	1	FO2	11/89	R	
MAPP-U.S.	SD	MDU	MOBRIDGE 2	IC	1	FO2	11/89	R	
MAPP-U.S.	ND	MDU	WILLISTON 1	ST	2	NG	11/89	R	
MAPP-U.S.	MN	UPA	ELK RIVER 1	ST	12	SUB	05/91	R	
MAPP-U.S.	MN	UPA	ELK RIVER 2	ST	12	SUB	05/91	R	
MAPP-U.S.	MN	OTP	ORTONVILLE 1	ST	20	LIG	05/91	R	
MAPP-U.S.	NE	NPPD	SCOTTSBLUFF 2	ST	6	NG	05/92	R	
MAPP-U.S.	MN	SMMP	AUSTIN NORTHEAST 1	ST	29	BIT	11/92	R	
MAPP-U.S.	MN	SMMP	ROCHESTER SILVER LK 3	ST	[illegible]	BIT	11/92	R	
MAPP-U.S.	MN	SMMP	ROCHESTER SILVER LK 4	ST	59	BIT	11/92	R	

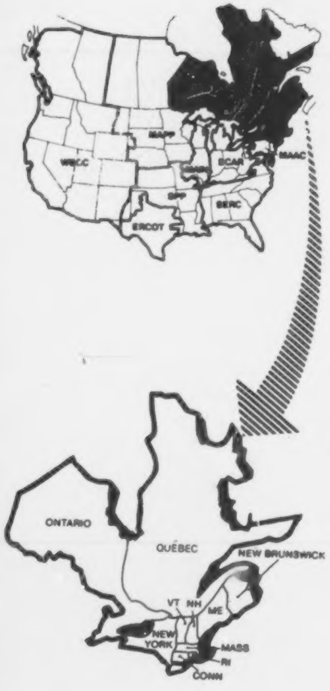
MAPP–Canada

REGION SUBREGION	STATE PROV.	UTILITY SYSTEM	UNIT NAME	UNIT TYPE	SUMMER MW CAPABILITY	FUEL TYPE	PROJECTED SERVICE DATE	CONSTRUCTION STATUS	JOINTLY OWNED
MAPP-CAN.	SA	SPC	ESTEVAN 2	ST	14	LIG	07/87	R	
MAPP-CAN.	SA	SPC	ESTEVAN 3	ST	19	LIG	07/87	R	
MAPP-CAN.	SA	SPC	ESTEVAN 4	ST	29	LIG	07/87	R	

CONTINUED

PLANNED GENERATING UNIT RETIREMENTS (1984-1993)
NPCC

TABLE 19



New York

REGION/ SUBREGION	STATE/ PROV.	UTILITY SYSTEM	UNIT NAME	UNIT TYPE	SUMMER MW CAPABILITY	FUEL TYPE	PROJECTED SERVICE DATE	CONSTRUCTION STATUS	JOINTLY OWNED
NPCC/NY	NY	ROGE	BEEBEE 10	ST	10	F06	05/90	R	
NPCC/NY	NY	ROGE	BEEBEE 11	ST	10	F06	05/90	R	
NPCC/NY	NY	ROGE	BEEBEE 3	ST	10	F06	05/90	R	
NPCC/NY	NY	ROGE	BEEBEE 6	ST	10	F06	05/90	R	
NPCC/NY	NY	ROGE	BEEBEE 8	ST	10	F06	05/90	R	
NPCC/NY	NY	ROGE	BEEBEE 9	ST	10	F06	05/90	R	

New England

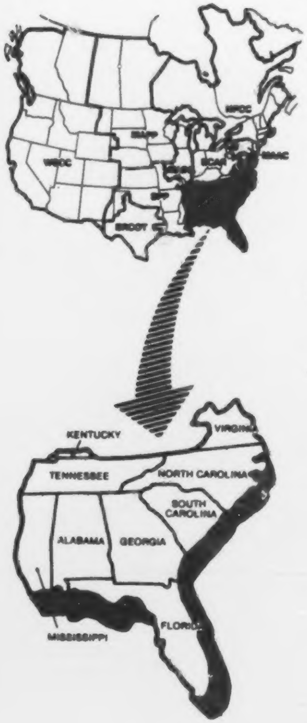
REGION/ SUBREGION	STATE/ PROV.	UTILITY SYSTEM	UNIT NAME	UNIT TYPE	SUMMER MW CAPABILITY	FUEL TYPE	PROJECTED SERVICE DATE	CONSTRUCTION STATUS	JOINTLY OWNED
NPCC/NE	CT	NOEU	BRANFORD 10	JE	17	F01	07/84	R	
NPCC/NE	CT	NOEU	ENFIELD 10	JE	17	F01	12/84	R	
NPCC/NE	CT	NOEU	TORRINGTON TERMINAL	JE	17	F01	12/84	R	
NPCC/NE	CT	NOEU	TUNNEL JET 10	JE	17	F01	12/84	R	
NPCC/NE	NH	PSNH	CONWAY DIESEL 1	IC	1	F02	11/86	R	
NPCC/NE	NH	PSNH	CONWAY DIESEL 2	IC	1	F02	11/86	R	
NPCC/NE	NH	PSNH	CONWAY DIESEL 3	IC	1	F02	11/86	R	
NPCC/NE	MA	HOGE	CABOT 9	ST	5	F06	10/87	R	
NPCC/NE	NH	CEMP	MASON 1	ST	21	F06	11/87	R	
NPCC/NE	CT	NOEU	DEVON 4	ST	50	F06	12/87	R	
NPCC/NE	CT	NOEU	DEVON 5	ST	48	F06	12/87	R	
NPCC/NE	NH	PSNH	SCHILLER 3	ST	27	F06	11/88	R	
NPCC/NE	NH	PSNH	SCHILLER 4	ST	45	COL	11/91	R	
NPCC/NE	CT	NOEU	DEVON 3	ST	68	F06	12/91	R	
NPCC/NE	CT	NOEU	DEVON 6	ST	68	F06	12/91	R	
NPCC/NE	ME	CEMP	MASON 2	ST	22	F06	11/92	R	
NPCC/NE	MA	NOEU	WEST SPRINGFIELD 1	ST	51	F06	12/92	R	
NPCC/NE	MA	NOEU	WEST SPRINGFIELD 2	ST	51	F06	12/92	R	
NPCC/NE	MA	COMW	BLACKSTONE 1	ST	14	F06	11/93	R	
NPCC/NE	MA	COMW	BLACKSTONE 3	ST	0	F06	11/93	R	
NPCC/NE	MA	COMW	BLACKSTONE 4	ST	2	F06	11/93	R	
NPCC/NE	CT	NOEU	FRANKLIN DRIVE 10	JE	17	F01	12/93	R	
NPCC/NE	CT	NOEU	MIDDLETOWN 1	ST	70	F06	12/93	R	

Ontario Hydro has not reported any planned generating unit retirements.

Hydro-Québec has not reported any planned generating unit retirements.

PLANNED GENERATING UNIT RETIREMENTS (1984-1993)
SERC

TABLE 19



Florida Subregion

REGION/ SUBREGION	STATE/ PROV.	UTILITY SYSTEM	UNIT NAME	UNIT TYPE	SUMMER MW CAPABILITY	FUEL TYPE	PROJECTED SERVICE DATE	CONSTRUCTION STATUS	JOINTLY OWNED
SERC/FLA	FL	TALL	PURDOM 1	ST	7	F06	05/84	R	
SERC/FLA	FL	TALL	PURDOM 2	ST	7	F06	05/84	R	
SERC/FLA	FL	TALL	PURDOM 3	ST	7	F06	05/84	R	
SERC/FLA	FL	TALL	PURDOM 4	ST	7	F06	05/84	R	
SERC/FLA	FL	SEBM	DINNER LAKE 1	ST	11	NG	06/86	R	
SERC/FLA	FL	ORLA	LAKE HIGHLAND 1	IC	1	F02	12/86	R	
SERC/FLA	FL	ORLA	LAKE HIGHLAND A	CT	13	NG	12/86	R	
SERC/FLA	FL	TALL	PURDOM 5	ST	22	F06	04/90	R	

Southern Subregion

REGION/ SUBREGION	STATE/ PROV.	UTILITY SYSTEM	UNIT NAME	UNIT TYPE	SUMMER MW CAPABILITY	FUEL TYPE	PROJECTED SERVICE DATE	CONSTRUCTION STATUS	JOINTLY OWNED
SERC/SOU	AL	ALAP	DEMOPOLIS 1	CT	17	OIL	01/85	R	
SERC/SOU	AL	ALAP	DEMOPOLIS 2	CT	17	OIL	01/85	R	
SERC/SOU	AL	ALAP	MITCHEL 1	HY	17	WAT	01/85	R	
SERC/SOU	AL	ALAP	MITCHEL 2	HY	17	WAT	01/85	R	
SERC/SOU	AL	ALAP	MITCHEL 3	HY	17	WAT	01/85	R	
SERC/SOU	GA	GEPC	ATKINSON 1	ST	54	F02	01/86	R	
SERC/SOU	AL	SOEG	GASTON A	CT	16	OIL	01/86	R	
SERC/SOU	GA	GEPC	ATKINSON 2	ST	62	F02	01/87	R	
SERC/SOU	AL	ALAP	BARRY A-B	CT	45	OIL	01/88	R	
SERC/SOU	MS	MIPR	STANDARD OIL 1	CT	15	NG	01/88	R	
SERC/SOU	MS	MIPR	STANDARD OIL 2	CT	15	NG	01/88	R	
SERC/SOU	FL	GUPC	CRIST 1	ST	27	NG	01/90	R	
SERC/SOU	FL	GUPC	CRIST 2	ST	27	NG	01/90	R	
SERC/SOU	FL	GUPC	CRIST 3	ST	27	NG	01/90	R	
SERC/SOU	AL	ALAP	GORGAS 5	ST	60	BIT	01/90	R	
SERC/SOU	FL	GUPC	SCHOLTZ 1	ST	47	BIT	01/90	R	
SERC/SOU	FL	GUPC	SCHOLTZ 2	ST	47	BIT	01/90	R	
SERC/SOU	GA	GEPC	ATKINSON 3	ST	65	F02	01/91	R	
SERC/SOU	GA	GEPC	ATKINSON 4	ST	65	F02	01/91	R	
SERC/SOU	MS	MIPR	EATON 1	ST	24	F06	01/91	R	
SERC/SOU	FL	GUPC	SMITH A	CT	31	F02	01/91	R	
SERC/SOU	MS	MIPR	WATSON A	CT	31	F02	01/91	R	
SERC/SOU	AL	ALAP	CHICKSAW 3	ST	41	F02	01/92	R	
SERC/SOU	MS	MIPR	SWEATT A	CT	31	F02	01/92	R	
SERC/SOU	MS	MIPR	EATON 2	ST	26	F06	01/93	R	

TVA Subregion has not reported any planned generating unit retirements.

VACAR Subregion has not reported any planned generating unit retirements.

PLANNED GENERATING UNIT RETIREMENTS (1984-1993)
SPP

TABLE 19

WSCC
MAPP
NPCC
MAIN
ECAN
MAAC
SERC
ERCOT
KANSAS
MISSOURI
OKLAHOMA
ARKANSAS
TEXAS
MISS
NEW MEXICO
LOUISIANA

GROUP A (Eastern Arkansas–Louisiana–Western Mississippi Area)

REGION/ SUBREGION	STATE/ PROV.	UTILITY SYSTEM	UNIT NAME	UNIT TYPE	SUMMER MW CAPABILITY	FUEL TYPE	PROJECTED SERVICE DATE	CONSTRUCTION STATUS	JOINTLY OWNED
SPP/GRP A	LA	MSUI	A. B. PATERSON 1	ST	46	NG	12/84	R	
SPP/GRP A	LA	MSUI	A. B. PATERSON 2	ST	42	NG	12/84	R	
SPP/GRP A	AR	MSUI	CECIL LYNCH 1	ST	28	NG	12/84	R	
SPP/GRP A	AR	MSUI	CECIL LYNCH 2	ST	55	NG	12/84	R	
SPP/GRP A	LA	MSUI	MARKET ST. 11	ST	31	NG	12/84	R	
SPP/GRP A	LA	MSUI	MARKET ST. 12	ST	31	NG	12/84	R	
SPP/GRP A	LA	MSUI	MARKET ST. 13	ST	27	NG	12/84	R	
SPP/GRP A	MS	MSUI	REX BROWN 1	ST	36	NG	12/84	R	
SPP/GRP A	MS	MSUI	REX BROWN 2	ST	47	NG	12/84	R	
SPP/GRP A	LA	MSUI	STERLINGTON 5	ST	44	NG	12/84	R	
SPP/GRP A	TX	GUSU	NECHES 3	ST	27	NG	01/85	R	
SPP/GRP A	LA	MSUI	A. B. PATERSON 3	ST	55	NG	12/85	R	
SPP/GRP A	MO	MSUI	JIM HILL 1	ST	35	NG	12/85	R	
SPP/GRP A	AR	MSUI	LAKE CATHERINE 1	ST	45	NG	12/85	R	
SPP/GRP A	AR	MSUI	LAKE CATHERINE 2	ST	44	NG	12/85	R	
SPP/GRP A	AR	MSUI	H. MOSES 1	ST	63	NG	12/86	R	
SPP/GRP A	AR	MSUI	H. MOSES 2	ST	63	NG	12/86	R	
SPP/GRP A	AR	MSUI	HARVEY COUCH 1	ST	25	NG	12/86	R	
SPP/GRP A	MS	MSUI	NATCHEZ 1	ST	73	NG	12/86	R	
SPP/GRP A	LA	MSUI	NINEMILE 1	ST	70	NG	12/86	R	
SPP/GRP A	MS	MSUI	REX BROWN 3	ST	69	NG	12/86	R	
SPP/GRP A	MS	MSUI	DELTA 1	ST	95	NG	12/88	R	
SPP/GRP A	MS	MSUI	DELTA 2	ST	95	NG	12/88	R	
SPP/GRP A	AR	MSUI	LAKE CATHERINE 3	ST	90	NG	12/88	R	
SPP/GRP A	LA	MSUI	NINEMILE 2	ST	90	NG	12/88	R	
SPP/GRP A	LA	MSUI	A. B. PATERSON 4	ST	80	NG	12/89	R	
SPP/GRP A	AR	MSUI	CECIL LYNCH 3	ST	130	NG	12/89	R	
SPP/GRP A	AR	MSUI	H. COUCH 2	ST	122	NG	12/89	R	
SPP/GRP A	LA	MSUI	NINEMILE 3	ST	125	NG	12/90	R	
SPP/GRP A	LA	CAJN	OPELOUSAS 1	ST	17	NG	02/91	R	
SPP/GRP A	LA	CAJN	OPELOUSAS 2	ST	17	NG	02/91	R	
SPP/GRP A	LA	MSUI	MICHOUD 1	ST	113	NG	12/92	R	
SPP/GRP A	LA	MSUI	STERLINGTON 6	ST	210	NG	12/93	R	

PLANNED GENERATING UNIT RETIREMENTS (1984-1993)
SPP TABLE 19

NPCC
MAPP
WSCC
ECAR
MAAC
MAIN
SERC
ERCOT
KANSAS
MISSOURI
OKLAHOMA
ARKANSAS
TEXAS
MISS
NEW MEXICO
LOUISIANA

GROUP B (Western Arkansas–Oklahoma Area)

REGION/ SUBREGION	STATE/ PROV.	UTILITY SYSTEM	UNIT NAME	UNIT TYPE	SUMMER MW CAPABILITY	FUEL TYPE	PROJECTED SERVICE DATE	CONSTRUCTION STATUS	JOINTLY OWNED
SPP/GRP B	OK	PSOK	GRANDFIELD DIESEL	IC	2	FO2	12/84	R	
SPP/GRP B	TX	SWPS	DENVER CITY 4	ST	50	NG	03/85	R	
SPP/GRP B	TX	SWPS	MOORE COUNTY 2	ST	19	NG	03/85	R	
SPP/GRP B	TX	SWPS	MOORE COUNTY 3	ST	48	NG	03/85	R	
SPP/GRP B	OK	PSOK	HOLLIS DIESEL	IC	4	FO2	12/87	R	
SPP/GRP B	TX	SOEP	KNOX LEE 1	ST	36	NG	12/87	R	
SPP/GRP B	TX	SWPS	CELANESE 1	ZZ	10	ZZ	03/91	R	
SPP/GRP B	OK	OKGE	ARBUCKLE 1	ST	74	NG	11/91	R	
SPP/GRP B	OK	OKGE	ENID 1	GT	12	NG	11/91	R	
SPP/GRP B	OK	OKGE	ENID 2	GT	12	NG	11/91	R	
SPP/GRP B	OK	OKGE	ENID 3	GT	12	NG	11/91	R	
SPP/GRP B	OK	OKGE	ENID 4	GT	12	NG	11/91	R	
SPP/GRP B	OK	OKGE	MUSTANG 1	ST	60	NG	11/91	R	
SPP/GRP B	OK	OKGE	MUSTANG 2	ST	58	NG	11/91	R	
SPP/GRP B	OK	OKGE	MUSTANG 3	ST	117	NG	11/91	R	
SPP/GRP B	OK	OKGE	WOODWARD GT	GT	11	NG	11/91	R	
SPP/GRP B	NM	SWPS	TUCUMCARI 3	IC	3	NG	03/92	R	
SPP/GRP B	NM	SWPS	TUCUMCARI 4	IC	3	NG	03/92	R	
SPP/GRP B	NM	SWPS	TUCUMCARI 6	IC	3	NG	03/92	R	
SPP/GRP B	NM	SWPS	TUCUMCARI 8	IC	3	NG	03/92	R	
SPP/GRP B	NM	SWPS	TUCUMCARI 9	IC	3	NG	03/92	R	
SPP/GRP B	OK	PSOK	SOUTHWESTERN 1	ST	80	NG	12/92	R	
SPP/GRP B	OK	PSOK	TULSA 3	ST	85	NG	12/92	R	
SPP/GRP B	OK	OKGE	MUSKOGEE 3	ST	184	NG	11/93	R	
SPP/GRP B	TX	SOEP	KNOX LEE 2	ST	38	NG	12/93	R	
SPP/GRP B	TX	SOEP	KNOX LEE 3	ST	36	NG	12/93	R	
SPP/GRP B	LA	SOEP	LIEBERMAN 1	ST	27	NG	12/93	R	
SPP/GRP B	LA	SOEP	LIEBERMAN 2	ST	29	NG	12/93	R	
SPP/GRP B	TX	SOEP	LONE STAR 1	ST	50	FO2	12/93	R	
SPP/GRP B	TX	SOEP	LONE STAR 2	GT	13	FO2	12/93	R	
SPP/GRP B	TX	SOEP	LONE STAR 3	GT	13	FO2	12/93	R	
SPP/GRP B	TX	SOEP	LONE STAR 4	GT	14	FO2	12/93	R	

GROUP C (West Missouri–Kansas Area)

REGION/ SUBREGION	STATE/ PROV.	UTILITY SYSTEM	UNIT NAME	UNIT TYPE	SUMMER MW CAPABILITY	FUEL TYPE	PROJECTED SERVICE DATE	CONSTRUCTION STATUS	JOINTLY OWNED
SPP/GRP C	MO	KACP	GRAND AVE 7	ST	30	BIT	03/85	R	
SPP/GRP C	KS	EMDE	RIVERTON 3	ST	10	NG	05/86	R	
SPP/GRP C	KS	EMDE	RIVERTON 4	ST	10	NG	05/86	R	
SPP/GRP C	MO	STJO	EDMOND ST. 4	ST	19	NG	12/89	R	
SPP/GRP C	MO	STJO	EDMOND ST. 7	ST	16	NG	12/89	R	
SPP/GRP C	MO	KACP	GRAND AVE 5	ST	0	BIT	06/90	R	
SPP/GRP C	MO	KACP	GRAND AVE 9	ST	40	BIT	06/90	R	
SPP/GRP C	KS	EMDE	RIVERTON 6	ST	30	NG	05/92	R	

CONTINUED

PLANNED GENERATING UNIT RETIREMENTS (1984-1993)
WSCC

TABLE 19

NPCC
MAPP
MAAC
ECAR
SPP
SERC
ERCOT
BRITISH COLUMBIA
ALBERTA
WASHINGTON
MONTANA
SOUTH DAKOTA
OREGON
IDAHO
WYOMING
NEVADA
UTAH
COLORADO
CALIFORNIA
ARIZONA
NEW MEXICO
TEXAS

Northwest Power Pool Area

REGION SUBREGION	STATE PROV	UTILITY SYSTEM	UNIT NAME	UNIT TYPE	SUMMER MW CAPABILITY	FUEL TYPE	PROJECTED SERVICE DATE	CONSTRUCTION STATUS	JOINTLY OWNED
WSCC/NWPP	WA	BPA	HANFORD 1	ZZ	420	PL	06/93	R	
WSCC/NWPP	MT	BPA	HANFORD 2	ZZ	420	PL	06/93	R	

Rocky Mountain Power Area

REGION SUBREGION	STATE PROV	UTILITY SYSTEM	UNIT NAME	UNIT TYPE	SUMMER MW CAPABILITY	FUEL TYPE	PROJECTED SERVICE DATE	CONSTRUCTION STATUS	JOINTLY OWNED
WSCC/RMPA	CO	PSC	ALAMOSA 4	ST	2	FO6	12/84	R	
WSCC/RMPA	CO	PSC	ALAMOSA 5	ST	5	FO6	12/84	R	
WSCC/RMPA	CO	PSC	ALAMOSA 6	ST	10	FO6	12/84	R	
WSCC/RMPA	CO	SCPC	PUEBLO 1	ST	8	NG	07/90	R	
WSCC/RMPA	CO	LUB	LAMAR PLANT 2	ST	3	NG	01/91	R	
WSCC/RMPA	CO	LUB	LAMAR PLANT 5	ST	6	NG	01/91	R	
WSCC/RMPA	CO	SCPC	PUEBLO 2	ST	8	NG	07/91	R	

Arizona-New Mexico Power Area

REGION SUBREGION	STATE PROV	UTILITY SYSTEM	UNIT NAME	UNIT TYPE	SUMMER MW CAPABILITY	FUEL TYPE	PROJECTED SERVICE DATE	CONSTRUCTION STATUS	JOINTLY OWNED
WSCC/AZ-NM	TX	EPE	RIO GRANDE 3	ST	19	NG	01/85	R	
WSCC/AZ-NM	TX	EPE	RIO GRANDE 4	ST	34	NG	01/85	R	
WSCC/AZ-NM	TX	EPE	RIO GRANDE 5	ST	34	NG	01/85	R	

PLANNED GENERATING UNIT RETIREMENTS (1984-1993)
WSCC

TABLE 19

NPCC
MAAC
MAPP
ECAR
MAIN
SPP
SERC
ERCOT
BRITISH COLUMBIA
ALBERTA
WASHINGTON
MONTANA
SOUTH DAKOTA
OREGON
IDAHO
WYOMING
NEVADA
UTAH
COLORADO
CALIFORNIA
ARIZONA
NEW MEXICO
TEXAS

California-Southern Nevada Power Area

REGION/ SUBREGION	STATE/ PROV	UTILITY SYSTEM	UNIT NAME	UNIT TYPE	SUMMER MW CAPABILITY	FUEL TYPE	PROJECTED SERVICE DATE	CONSTRUCTION STATUS	JOINTLY OWNED
WSCC/CA-SNV	CA	SDGE	STATION B	CG	1	FO2	01/86	R	
WSCC/CA-SNV	CA	SCE	ETIWANDA 1	ST	132	FO4	01/87	R	
WSCC/CA-SNV	CA	SCE	ETIWANDA 2	ST	132	FO4	01/87	R	
WSCC/CA-SNV	CA	SCE	REDONDO BEACH 5	ST	175	FO4	01/87	R	
WSCC/CA-SNV	CA	SCE	REDONDO BEACH 6	ST	175	FO4	01/87	R	
WSCC/CA-SNV	CA	PG&E	OEP FAC 1	CG	1	CRU	01/88	R	
WSCC/CA-SNV	CA	PG&E	OEP FAC 2	CG	6	CRU	01/88	R	
WSCC/CA-SNV	CA	SCE	SAN BERNARDINO 1	ST	63	FO4	01/88	R	
WSCC/CA-SNV	CA	SCE	SAN BERNARDINO 2	ST	63	FO4	01/88	R	
WSCC/CA-SNV	CA	PG&E	KERN 1	ST	74	NG	01/89	R	
WSCC/CA-SNV	CA	PG&E	KERN 2	ST	106	NG	01/89	R	
WSCC/CA-SNV	CA	PG&E	HUNTERS PT 2	ST	107	NG	01/91	R	
WSCC/CA-SNV	CA	PG&E	HUNTERS PT 3	ST	107	NG	01/91	R	
WSCC/CA-SNV	CA	PG&E	MOSS LANDING 1	ST	116	NG	01/91	R	
WSCC/CA-SNV	CA	PG&E	OEP FAC 3	CG	6	CRU	03/91	R	
WSCC/CA-SNV	CA	PG&E	OEP FAC 4	CG	6	CRU	09/91	R	
WSCC/CA-SNV	CA	PG&E	CONTRA COSTA 2	ST	116	NG	01/92	R	
WSCC/CA-SNV	CA	PG&E	MOSS LANDING 2	ST	115	NG	01/92	R	
WSCC/CA-SNV	CA	PG&E	MOSS LANDING 3	ST	117	NG	01/92	R	
WSCC/CA-SNV	CA	PG&E	OEP FAC 5	CG	6	CRU	03/92	R	
WSCC/CA-SNV	CA	PG&E	OEP FAC 6	CG	6	CRU	09/92	R	
WSCC/CA-SNV	CA	PG&E	CONTRA COSTA 1	ST	116	NG	01/93	R	
WSCC/CA-SNV	CA	PG&E	CONTRA COSTA 3	ST	116	NG	01/93	R	
WSCC/CA-SNV	CA	PG&E	OEP FAC 7	CG	6	CRU	03/93	R	
WSCC/CA-SNV	CA	PG&E	OEP FAC 8	CG	6	CRU	03/93	R	

WSCC–Canada

REGION/ SUBREGION	STATE/ PROV.	UTILITY SYSTEM	UNIT NAME	UNIT TYPE	SUMMER MW CAPABILITY	FUEL TYPE	PROJECTED SERVICE DATE	CONSTRUCTION STATUS	JOINTLY OWNED
WSCC-CAN.	BC	BCHA	BOSTON BAR DIESEL	IC	1	FO2	10/88	R	
WSCC-CAN.	BC	BCHA	LYTTON DIESEL	IC	2	FO2	10/88	R	
WSCC-CAN.	AL	EDMP	ROSSDALE 6	GT	22	NG	10/89	R	
WSCC-CAN.	AL	EDMP	ROSSDALE 7	GT	22	NG	10/89	R	
WSCC-CAN.	AL	APL	FORT MCMURRAY	GT	14	NG	10/90	R	
WSCC-CAN.	AL	CMH	MEDICINE HAT 4	ST	3	NG	10/90	R	
WSCC-CAN.	AL	CMH	MEDICINE HAT 6	ST	5	NG	10/90	R	
WSCC-CAN.	AL	EDMP	ROSSDALE 2	ST	14	NG	10/90	R	
WSCC-CAN.	AL	EDMP	ROSSDALE 3	ST	28	NG	10/90	R	
WSCC-CAN.	AL	EDMP	ROSSDALE 4	ST	28	NG	10/90	R	
WSCC-CAN.	AL	APL	STURGEON 1	GT	7	NG	10/90	R	
WSCC-CAN.	AL	APL	STURGEON 2	GT	6	NG	10/90	R	

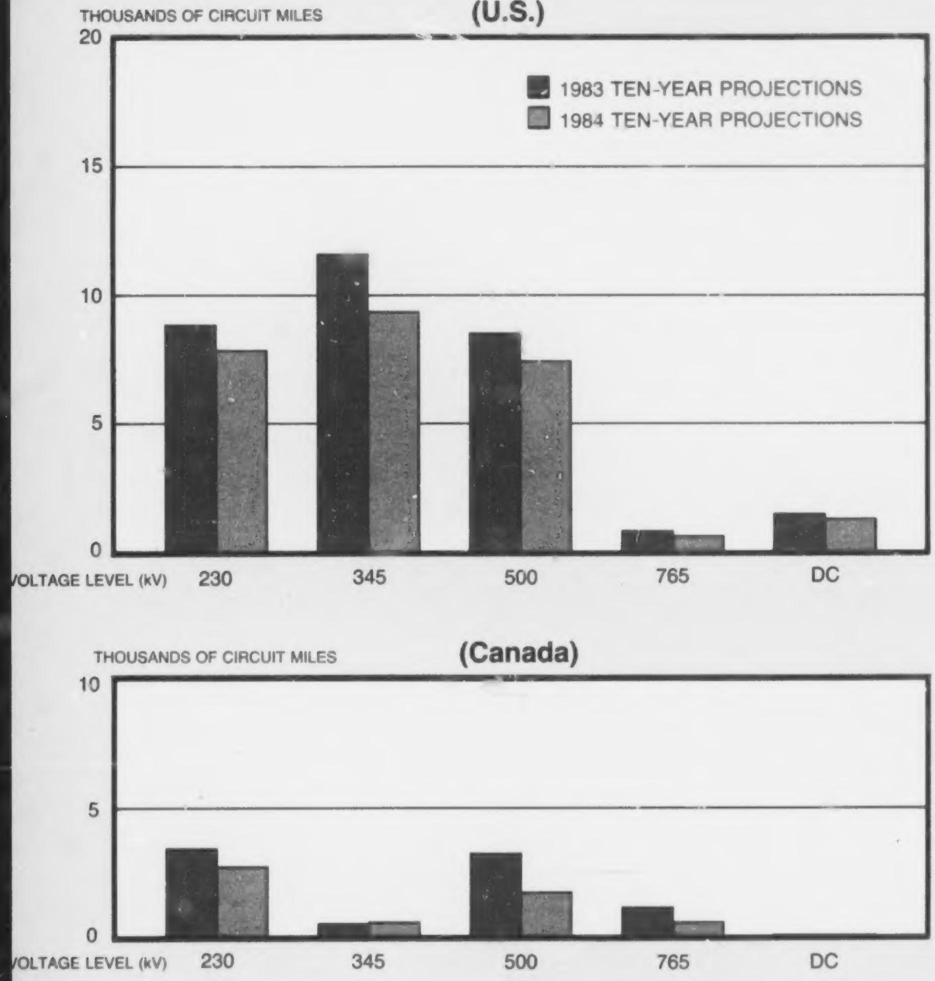
CONTINUED

Planned Transmission Additions

The existing transmission networks in the United States and Canada together comprise over 167,000 miles of high voltage transmission lines. In the next ten years, utilities are planning to add a net total of 32,169 circuit miles of new lines as delineated in the following tables. This compares to a total of 39,600 circuit miles projected last year, reflecting in part the reduction in projected generation additions.

Of the tabulated voltage levels, the 345 kV level shows the largest projected increase in the U.S., with 9,363 circuit miles of lines planned to be added during the next ten years. In Canada, the largest increase in transmission miles is expected at the 230 kV level, with 2,747 circuit miles of lines planned to be added during the 1984-1993 period.

NERC Planned Transmission Additions



PLANNED TRANSMISSION ADDITIONS
EXISTING 12/31/83 (Circuit Miles)

TABLE 20

REGION	VOLTAGE (kV)							
	AC				DC			
	230	345	500	765	± 250-300	± 400	± 450	± 500
ECAR	998	11,629	812	1.578	0	0	0	0
ERCOT	0	5,691	0	0	0	0	0	0
MAAC	4,580	169	1,567	0	0	0	0	0
MAIN	259	4,872[a]	0	90	0	0	0	0
MAPP—U.S.	6,869	4.572	640	0	465	436	0	0
NPCC—U.S.	1,524	3,915	5	251	0	0	0	0
SERC	18.583	2	5,627	0	0	0	0	0
SPP	3,798	3,829	1,611	0	0	0	0	0
WSCC—U.S.	29,375	7,757[b]	9,854	0	0	844	0	0
NERC—U.S.	65,986	42,436	20,116	1.919	465	1.280	0	0
MAPP—CANADA	3,979	0	130	0	582	0	557	0
NPCC—CANADA	11,046	4,112	1,386	4,699	0	0	0	0
WSCC—CANADA	4,780	264[c]	3,181	0	94	0	0	0
NERC—CANADA	19,805	4,376	4.697	4.699	676	0	557	0

PLANNED TRANSMISSION ADDITIONS
EXISTING 12/31/83 (Circuit Miles)

TABLE 20

SUBREGION	VOLTAGE (kV)							
	AC				DC			
	230	345	500	765	± 250-300	± 400	± 450	± 500
CMNWLTH. ED.	0	2,294	0	90	0	0	0	0
EAST MISSOURI	89	893	0	0	0	0	0	0
SO. CENT. ILL.	47	789	0	0	0	0	0	0
WIUM	123	896[a]	0	0	0	0	0	0
MAIN	259	4,872	0	90	0	0	0	0
NEW YORK	1,080	2,279	5	251	0	0	0	0
NEW ENGLAND	444	1,636	0	0	0	0	0	0
NPCC—U.S.	1,524	3,915	5	251	0	0	0	0
NEW BRUNSWICK	324	375	0	0	0	0	0	0
ONTARIO	8,312	4	1,386	0	0	0	0	0
QUÉBEC	2,410	3,733	0	4,699	0	0	0	0
NPCC—CANADA	11,046	4,112	1.386	4.699	0	0	0	0
FLORIDA	4,306	0	516	0	0	0	0	0
SOUTHERN	6,060	0	1.286	0	0	0	0	0
TVA	30	2	2.243	0	0	0	0	0
VACAR	8,187	0	1,582	0	0	0	0	0
SERC	18,583	2	5.627	0	0	0	0	0
GROUP A	1,926	98	1,509	0	0	0	0	0
GROUP B	1,226	1,666	47	0	0	0	0	0
GROUP C	646	2,065	55	0	0	0	0	0
SPP	3,798	3,829	1.611	0	0	0	0	0
NWPP—U.S.	11,956	3,693	5,051	0	0	264	0	0
RMPA	3,633	540	0	0	0	0	0	0
AZ-NM	2.126	3,129	1,461	0	0	0	0	0
CA-SNV	11,660	395[b]	3.342	0	0	580	0	0
WSCC—U.S.	29,375	7,757	9.854	0	0	844	0	0

CONTINUED

PLANNED TRANSMISSION ADDITIONS

ADDITIONS 1984-88 (Circuit Miles)

TABLE 21

REGION	VOLTAGE (kV)							
	AC				DC			
	230	345	500	765	± 250-300	± 400	± 450	± 500
ECAR	100	277	130	494	0	0	0	0
ERCOT	0	1,645	0	0	0	155	0	0
MAAC	303	0	138	0	0	0	0	0
MAIN	0	211	0	0	0	0	0	0
MAPP—U.S.	182	229	0	0	0	0	0	0
NPCC—U.S.	0	511	0	0	0	0	59	0
SERC	1,833	0	1,711	0	0	0	0	0
SPP	566	1,205	758	0	0	155	0	0
WSCC—U.S.	2,014	2,187[b]	1,101	0	0	-844	0	1,603
NERC—U.S.	4,998	6,265	3,838	494	0	-534	59	1,603
MAPP—CANADA	301	0	0	0	-582	0	0	582
NPCC—CANADA	226	338	257	551	0	0	48	0
WSCC—CANADA	444	0[c]	661	0	0	0	0	0
NERC—CANADA	971	338	918	551	-582	0	48	582

PLANNED TRANSMISSION ADDITIONS

ADDITIONS 1984-88 (Circuit Miles)

TABLE 21

SUBREGION	VOLTAGE (kV)							
	AC				DC			
	230	345	500	765	± 250-300	± 400	± 450	± 500
CMNWLTH. ED.	0	157	0	0	0	0	0	0
EAST MISSOURI	0	0	0	0	0	0	0	0
SO. CENT. ILL.	0	0	0	0	0	0	0	0
WIUM	0	54	0	0	0	0	0	0
MAIN	0	211	0	0	0	0	0	0
NEW YORK	0	387	0	0	0	0	0	0
NEW ENGLAND	0	124	0	0	0	0	59	0
NPCC—U.S.	0	511	0	0	0	0	59	0
NEW BRUNSWICK	0	246	0	0	0	0	0	0
ONTARIO	150	0	257	0	0	0	0	0
QUÉBEC	76	92	0	551	0	0	48	0
NPCC—CANADA	226	338	257	551	0	0	48	0
FLORIDA	415	0	676	0	0	0	0	0
SOUTHERN	680	0	614	0	0	0	0	0
TVA	0	0	147	0	0	0	0	0
VACAR	738	0	274[d]	0	0	0	0	0
SERC	1,833	0	1,711	0	0	0	0	0
GROUP A	281	0	758	0	0	0	0	0
GROUP B	223	610	0	0	0	155	0	0
GROUP C	62	595	0	0	0	0	0	0
SPP	566	1,205	758	0	0	155	0	0
NWPP—U.S.	735	191	416	0	0	−264	0	264
RMPA	195	713	0	0	0	0	0	0
AZ-NM	317	1,181	159	0	0	0	0	240
CA-SNV	767	102[b]	526	0	0	−580	0	1,099
WSCC—U.S.	2,014	2,187	1,101	0	0	−844	0	1,603

CONTINUED

PLANNED TRANSMISSION ADDITIONS

ADDITIONS 1989-93 (Circuit Miles)

TABLE 22

REGION	VOLTAGE (kV)							
	AC				DC			
	230	345	500	765	± 250-300	± 400	± 450	± 500
ECAR	13	643	196	116	0	0	0	0
ERCOT	0	1,024	0	0	0	0	0	0
MAAC	89	0	51	0	0	0	0	0
MAIN	0	90[a]	0	0	0	0	0	0
MAPP—U.S.	161	378	535	0	0	0	0	0
NPCC—U.S.	0	241	0	0	0	0	139	0
SERC	773	0	669	0	0	0	0	0
SPP	627	609	185	0	0	0	0	0
WSCC—U.S.	1,200	113[b]	1,954	0	0	0	0	0
NERC—U.S.	2,863	3,098	3,590	116	0	0	139	0
MAPP—CANADA	275	0	75	0	0	0	0	0
NPCC—CANADA	513	144	462	6	0	0	0	0
WSCC—CANADA	988	79[c]	272	0	0	0	0	0
NERC—CANADA	1,776	223	809	6	0	0	0	0

PLANNED TRANSMISSION ADDITIONS
ADDITIONS 1989-93 (Circuit Miles)

TABLE 22

SUBREGION	VOLTAGE (kV)							
	AC				DC			
	230	345	500	765	± 250-300	± 400	± 450	± 500
CMNWLTH. ED.	0	0	0	0	0	0	0	0
EAST MISSOURI	0	0	0	0	0	0	0	0
SO. CENT. ILL.	0	58	0	0	0	0	0	0
WIUM	0	32[f]	0	0	0	0	0	0
MAIN	0	90	0	0	0	0	0	0
NEW YORK	0	71	0	0	0	0	0	0
NEW ENGLAND	0	170	0	0	0	0	139	0
NPCC—U.S.	0	241	0	0	0	0	139	0
NEW BRUNSWICK	0	55	0	0	0	0	0	0
ONTARIO	447	0	462	0	0	0	0	0
QUÉBEC	66	89	0	6	0	0	0	0
NPCC—CANADA	513	144	462	6	0	0	0	0
FLORIDA	72	0	367	0	0	0	0	0
SOUTHERN	265	0	130	0	0	0	0	0
TVA	0	0	36	0	0	0	0	0
VACAR	436	0	136	0	0	0	0	0
SERC	773	0	669	0	0	0	0	0
GROUP A	328	56	185	0	0	0	0	0
GROUP B	299	219	0	0	0	0	0	0
GROUP C	0	334	0	0	0	0	0	0
SPP	627	609	185	0	0	0	0	0
NWPP—U.S.	219	13	180	0	0	0	0	0
RMPA	660	166	0	0	0	0	0	0
AZ-NM	192	165	174	0	0	0	0	0
CA-SNV	129	-231[b]	1,600	0	0	0	0	0
WSCC—U.S.	1,200	113	1,954	0	0	0	0	0

CONTINUED

PLANNED TRANSMISSION ADDITIONS
TOTAL 12/31/93 (Circuit Miles)

TABLE 23

REGION	VOLTAGE (kV)							
	AC				DC			
	230	345	500	765	± 250-300	± 400	± 450	± 500
ECAR	1,111	12,549	1,138	2,188	0	0	0	0
ERCOT	0	8,360	0	0	0	155	0	0
MAAC	4,972	169	1,756	0	0	0	0	0
MAIN	259	5,173	0	90	0	0	0	0
MAPP—U.S.	7,212	5,179	1,175	0	465	436	0	0
NPCC—U.S.	1,524	4,667	5	251	0	0	198	0
SERC	21,189	2	8.007	0	0	0	0	0
SPP	4,991	5,643	2.554	0	0	155	0	0
WSCC—U.S.	32,589	10,057[b]	12,909	0	0	0	0	1,603
NERC—U.S.	73,847	51,799	27,544	2.529	465	746	198	1,603
MAPP—CANADA	4,555	0	205	0	0	0	557	582
NPCC—CANADA	11,785	4,594	2.105	5.256	0	0	48	0
WSCC—CANADA	6,212	343[c]	4,114	0	94	0	0	0
NERC—CANADA	22,552	4.937	6.424	5.256	94	0	605	582

PLANNED TRANSMISSION ADDITIONS
TOTAL 12/31/93 (Circuit Miles)

TABLE 23

SUBREGION	VOLTAGE (kV)							
	AC				DC			
	230	345	500	765	±250-300	±400	±450	±500
CMNWLTH. ED.	0	2,451	0	90	0	0	0	0
EAST MISSOURI	89	893	0	0	0	0	0	0
SO. CENT. ILL.	47	847	0	0	0	0	0	0
WIUM	123	982	0	0	0	0	0	0
MAIN	259	5,173	0	90	0	0	0	0
NEW YORK	1,080	2,737	5	251	0	0	0	0
NEW ENGLAND	444	1,930	0	0	0	0	198	0
NPCC—U.S.	1,524	4,667	5	251	0	0	198	0
NEW BRUNSWICK	324	676	0	0	0	0	0	0
ONTARIO	8,909	4	2,105	0	0	0	0	0
QUÉBEC	2,552	3,914	0	5.256	0	0	48	0
NPCC—CANADA	11,785	4,594	2,105	5.256	0	0	48	0
FLORIDA	4,793	0	1,559	0	0	0	0	0
SOUTHERN	7,005	0	2,030	0	0	0	0	0
TVA	30	2	2,426	0	0	0	0	0
VACAR	9,361	0	1,992	0	0	0	0	0
SERC	21,189	2	8,007	0	0	0	0	0
GROUP A	2,535	154	2,452	0	0	0	0	0
GROUP B	1,748	2,495	47	0	0	155	0	0
GROUP C	708	2,994	55	0	0	0	0	0
SPP	4,991	5,643	2.554	0	0	155	0	0
NWPP—U.S.	12,910	3,897	5,647	0	0	0	0	264
RMPA	4,488	1,419	0	0	0	0	0	0
AZ-NM	2,635	4,475	1.794	0	0	0	0	240
CA-SNV	12,556	266[b]	5.468	0	0	0	0	1.099
WSCC—U.S.	32,589	10,057	12,909	0	0	0	0	1,603

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FOOTNOTES TO TABLES 20-23

a/ Includes 34 miles designated for 345 kV but operated at 115 kV.
b/ Category includes 287 kV.
c/ Category includes 287 kV, 360 kV.
d/ Includes 86 miles of 500 kV line which is owned 80% by VEPCO and 20% by APS.
e/ Includes 32 miles designed for 345 kV but initially operated at 115 kV.
f/ Designed for 345 kV but initially operated at 115 kV.